1322

CROSS SECTIONS.

for

MONTHLY ESTIMATES.

WORK OF.

DREDGER #5.

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November 1908	"		11
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February 1909			19

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MEMBERS of PARTY

P. E. Dufour		Fair Oaks	Cal.
Fred Burns	Rodman	Boston	Mass
H. Clinesmith	Chainman	Redding	Cal.
Frank King	Axeman	Franklin	Ore.

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SEPTEMBER 1808

	Rt								C					Lt		
E718	4.8 / 137.5	1.0 W.S. / 128.2	-8.1 / 120.0	-6.1 / 110.0	-6.5 / 100.0	-6.5 / 90.0	-6.0 / 80.0		1.0 / 69.0	8.9 W.S. / 62.0	13.5 / 54.2	24.7 / 16.5	24.8	24.6 / 7.6	24.0 / 10.0	8.0 / 36.0
719	7.1 / 128.0	1.0 / 122.0	W.S. -3.5 / 130.0	-7.7 / 110.0	-6.9 / 100.0	-7.5 / 90.0	-6.6 / 80.0	-5.5 / 70.0	1.0 / 67.0	W.S. 8.6 / 60.0	15.7 / 36.7	18.6 / 30.0	25.0 / 17.1	25.4	25.5 / 7.0	24.9 / 10.0	7.8 / 36.0
720	8.0 / 132.0	1.0 / 131.0	W.S. -0.5 / 130.0	-6.2 / 110.0	-5.2 / 100.0	-5.8 / 90.0	-6.3 / 80.0	-5.7 / 70.0	1.0 W.S. / 66.0	8.0 / 58.9	9.2 / 50.0	13.8 / 40.0	18.5 / 30.0	24.4 / 20.0	24.8	24.5 / 10.0	23.8 / 14.1	7.8 / 41.5
721	8.6 / 135.5	1.0 / 131.5	W.S. -1.5 / 130.0	-6.7 / 110.0	-6.0 / 100.0	-6.0 / 90.0	-6.2 / 80.0	-6.3 / 70.0	1.0 W.S. / 66.0	6.9 / 60.0	11.5 / 50.0	16.2 / 40.0	18.6 / 30.0	24.1 / 21.0	24.5	21.9 / 10.0	20.7 / 14.6	8.0 / 37.0
722	8.0 / 135.0	1.0 / 132.0	W.S. -2.0 / 120.0	-6.0 / 110.0	-6.6 / 100.0	-6.7 / 90.0	-6.4 / 80.0	-6.1 / 70.0	1.0 W.S. / 64.9	7.8 / 60.0	10.5 / 50.0	14.4 / 30.0	24.0 / 19.6	24.8	23.2 / 15.7	7.7 / 40.5	

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E723		14.0 / 120.0	1.0 W.S. / 112.0	-7.0 / 110.0	-8.0 / 100.0	-7.6 / 90.0	-7.8 / 80.0	-7.1 / 70.0		1.0 W.S. / 68	7.7 / 59.3	10.7 / 40.0	20.7 / 20.0	24.0 / 15.3	24.2	23.7 / 10.0	23.3 / 17.6	8.2 / 41.0		
724	13.8 / 24.0	1.0 W.S. / 121.0	-6.7 / 110.0	-6.7 / 100.0	-7.3 / 90.0	-8.0 / 80.0	-6.7 / 70.0	1.0 W.S. / 63.0		7.0 / 57.0	10.0 / 50.0	15.7 / 40.0	19.9 / 30.0	23.5 / 20.0	23.9	23.6 / 10.0	21.8 / 17.2	8.0 / 40.0		
725		100.0	1.0 W.S. / 117.8	-5.5 / 110.0	-6.0 / 100.0	-6.5 / 90.0	-7.1 / 80.0			-7.0 / 70.0	1.0 W.S. / 62.9	7.3 / 58.7	15.0 / 30.0	22.6 / 14.4	23.4	21.9 / 16.3	8.6 / 57.0			
726	12.0 / 130.0	1.0 W.S. / 129	2.8 / 120.0	-7.2 / 110.0	-6.9 / 100.0	-7.0 / 90.0	-6.8 / 80.0	-6.1 / 70.0	1.0 W.S. / 64	7.7 / 60.0	10.1 / 50.0	15.5 / 40.0	18.1 / 30.0	23.6 / 14.9	24.2	23.6 / 10.0	22.5 / 15.3	8.6 / 38.3		
727	8.1 / 130.0	1.0 W.S. / 129.0	-4.0 / 120.0	-5.5 / 110.0	-6.7 / 100.0	-7.0 / 90.0	-6.6 / 80.0	-6.7 / 70.0		1.0 W.S. / 64.0	7.9 / 60.0	10.8 / 50.0	18.0 / 30.0	24.4 / 15.3	24.7	24.5 / 10.0	23.0 / 17.0	8.9 / 39.0		

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	H								C						
E728	-27/130°	-63/110°	-62/100°	-65/90°	-62/80°	-68/70°	1.0 N.S./64.5	84/57.7	9.2/30°	12.5/40°	16.9/50°	20.4/60°	25.2/72.8	24.9	24.6/70°	24.3/16.5	9.2/47°
	7.9/135°	1.0 N.S./123°															
729	8.3/119°	1.0 N.S./118°	-49/110°	-51/100°	-56/90°	-56/80°			-51/70°	1.0 N.S./63°	7.3/56.4	12.1/57.0	25.5/19.8	25.6	25.1/70°	25.4/16.5	9.9/47.3
730	8.0/139°	1.0 N.S./119.9	-63/110°	-77/100°	-68/90°	-65/80°	-53/70°	1.0/63°	7.6/58.1	10.3/90°	18.3/20°	22.9/12°	23.1/70°	23.0	23.1/70°	23.5/14.9	9.1/47.0
731	7.7/139°	1.0 N.S./117.6	-65/110°	-65/100°	-59/90°	-56/80°			-58/70°	1.0 N.S./62°	8.3/57.4	11.6/35.1	24.1/14.1	24.2	23.9/70°	23.9/15.2	9.4/37.0
732	-13/130°	-13/110°	-60/100°	-59/90°	-58/80°	-57/70°	1.0 N.S./66°	7.6/60.°	12.7/30°	19.6/20°	23.1/16.2	24.1/70.°	24.4	24.1/70.°	23.6/13.8	9.2/37.0	
	8.2/124°	1.0 N.S./121°															

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				Lt.														C			Rt.	
D728	-6.8 / 110.0	-5.7 / 100.0	-5.3 / 90.0	-6.1 / 80.0	-5.7 / 70.0	1.0 / 67.0	WS 7.4 / 62.0	8.0 / 57.0	11.2 / 49.2	13.2 / 39.0	15.9 / 34.5	16.9 / 29.0	23.2 / 20.0	24.1 / 10.0	24.3	24.2 / 10.0	24.6 / 13.5	2.8 / 40.0				
			9.0 / 126.0	1.0 / 121.5	WS -0.7 / 120.0																	
739			8.5 / 129.0	1.0 / 126.0	WS 5.2 / 120.0	-5.7 / 110.0	-5.7 / 100.0	-6.9 / 90.0	-5.1 / 80.0	-6.3 / 70.0	1.0 / 66.0	WS 8.4 / 60.0	16.0 / 51.0	24.0 / 16.3	24.1	24.2 / 14.4	7.7 / 39.0					
740			WS 1.0 / 132.0	-5.9 / 110.0	-5.7 / 100.0	-6.1 / 90.0	-6.2 / 80.0	-5.0 / 70.0	1.0 / 64.0	WS 6.9 / 60.0		10.5 / 37.0	13.8 / 30.0	20.7 / 20.0	24.4 / 13.2	24.4 / 10.0	24.0	23.8 / 10.0	23.4 / 15.8	7.2 / 40.0			
			8.8 / 126.0																			
750			1.8 / 129.0	WS -5.7 / 120.0	-5.4 / 110.0	-5.3 / 100.0	-5.7 / 90.0	-5.8 / 80.0	-5.0 / 70.0	-4.7 / 60.0		1.8 / 57.5	WS 7.3 / 56.0									
										7.8 / 50.0												
741	-5.3 / 130.0	-5.8 / 120.0	-5.0 / 110.0	-4.9 / 100.0	-5.4 / 90.0	-5.6 / 80.0	-4.4 / 70.0	-4.5 / 60.0	WS 1.3 / 56.0	7.8 / 53.2	12.6 / 32.4	16.1 / 28.0	24.7 / 17.0	24.4 / 10.0	24.4	24.1 / 12.0	7.5 / 37.0					
			7.9 / 186.0	1.8 / 185.0	WS -1.4 / 180.0	-2.6 / 170.0	-4.0 / 160.0	-3.8 / 150.0	-4.7 / 140.0													

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Lt. C. Rt.

I D 741+50 -4.3/150° -4.3/140° -4.7/130° -5.7/120° -6.6/110° -4.0/100° -5.8/90° -6.0/80° -4.7/70° 1.3 WS/61.0° 3.7/37°

Original Cross Section of Natural from P.S. 9.1/30° 1.3 WS/24° -1.3/20° -2.7/10° -4.5/170° -4.5/160° -4.9/150° -4.3/140°

741 -4.9/130° -5.4/120° -6.0/110° -6.9/100° -5.9/90° -6.0/80° -3.6/70° 1.8 WS/62° 7.6/60° 12.0/40° 19.2/30° 24.2/20° 27.7/10° 24.4 24.2/10° 9.5/30° 7.0/50°

1.7/220° 6.9/210° 1.3 WS/200° -0.1/190° -2.4/180° -3.1/170° -4.2/160° -4.2/150° -4.2/140°

5.9/250° 9.9/240° 11.7/230° 18.0/220° 16.6/210°

+50 -3.9/140° -5.4/130° -5.4/120° -6.5/110° -6.5/100° -7.5/90° -7.4/80° -5.6/70° 1.3 WS/62° 9.7/62.0°

-5.2/250° 2.0/240° 10.9/230° 16.5/220° 16.0/210° 9.7/200° 4.9/195° -1.8/192° WS

743 +0.7/130° -2.0/120° -3.2/110° -5.2/100° -5.0/90° -4.5/80° -2.4/70° 1.8 WS/64.0° 6.9/60.0° 20.0°

Rt. not set cross section as it was not done for pile drivers use 100' section for estimate of fill.

USE 100' section for estimate of fill, - 741+50 to 743+50

1.2/180° 1.3 WS/152.0°

750 16.6/100° 13.1/175° 9.9/165° 7.6/150° 1.8 WS/130° -1.6/120° -3.1/110° -5.0/100° -5.4/90° -4.5/80° -4.0/70° -3.1/60° 1.3 WS/63.7/36.0°

9.6/280° 15.3/270°

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	Lt																							
D 744	-7.6 / 190°	-7.6 / 180°	-9.0 / 190°	-8.5 / 110°	-8.2 / 100°	-9.3 / 90°	-8.8 / 80°	-4.5 / 75°	1.8 / 67°															
	9.7 / 280°	12.8 / 255°	16.9 / 230°	12.8 / 200°	9.9 / 185°	1.8 / 165°																		
+50	-5.4 / 160°	-7.1 / 250°	-6.5 / 140°	-6.9 / 130°	-7.1 / 100°	-6.7 / 90°	-6.8 / 80°	-6.5 / 70°	-5.8 / 60°															
	6.7 / 295°	9.7 / 260°	12.9 / 235°	6.9 / 200°	1.8 / 180°	-1.0 / 160°																		
745	-6.8 / 160°	-6.1 / 150°	-7.1 / 140°	-7.6 / 130°	-7.3 / 120°	-6.2 / 110°	-6.1 / 100°	-6.5 / 90°	-6.2 / 80°	-5.8 / 70°														
	Original Cross Section of drop							1.0 / 285°	1.8 / 270°	-3.4 / 260°														
+50	6.5 / 148°	1.8 / 145°	-1.9 / 140°	-3.2 / 130°	-5.1 / 120°	-5.3 / 110°	-4.5 / 100°	-4.2 / 90°	-4.0 / 80°															
746	6.4 / 140°	1.8 / 135°	-3.6 / 130°	-8.6 / 120°	-9.4 / 110°	-9.4 / 100°	-9.2 / 90°	-7.5 / 80°	-6.2 / 70°	0.3 / 60°														

D 744	5.6 / 136°	7.1 / 37.9°	12.3 / 30.0°	18.8 / 20.0°	24.2 / 70.0°	28.0°	23.7 / 19.0°	23.9 / 12.0°	6.6 / 39.0°															
	-2.1 / 160°	-4.6 / 150°																						
+50	-4.6 / 170°	1.8 / 64.0°	4.5 / 62.0°																					
	-3.1 / 190°	-2.9 / 170°	-6.8 / 170.0°																					
745	1.8 / 65.5°	6.0 / 65.0°	9.6 / 40.0°	14.1 / 30.0°	21.5 / 13.9°	28.4	23.9 / 9.0°	4.6 / 39.0°																
	-6.2 / 140°	-5.8 / 120.0°	-4.2 / 120°																					
+50	-2.8 / 30°	1.8 / 65.5°	1.6 / 62.0°																					
746	6.2 / 61.0°	10.0 / 10.0°	20.2 / 20.0°	24.7 / 14.0°	24.2 / 10.0°	24.7	24.1 / 9.9	5.7 / 39.0°																

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	LT									C				RT
D747	6.6 / 143.0	13 WS / 132.0	8.1 / 130.0	-8.2 / 120.0	-11.4 / 110.0	-11.8 / 100.0	-11.8 / 90.0	-7.6 / 80.0	-8.1 / 70.0	15 WS / 63.0	8.0 / 64.7	11.2 / 40.0	16.4 / 30.0	23.8 / 17.7	25.0	22.0 / 10.0	7.6 / 32.6
748	9.2 / 141.0	13 WS / 134.0	-10.2 / 130.0	-8.5 / 120.0	-8.7 / 110.0	-8.7 / 100.0	-8.3 / 90.0	-6.8 / 80.0	13 WS / 70.0	7.8 / 67.7	9.4 / 40.0	14.4 / 30.0	20.1 / 20.0	24.0 / 10.0	23.5	23.5 / 7.6	10.3 / 29.0	7.5 / 67.0
749	-8.4 / 140.0	-4.6 / 130.0	-4.7 / 120.0	-4.1 / 110.0	-3.2 / 100.0	-6.8 / 90.0	-4.5 / 80.0	13 WS / 70.0	10.1 / 77.9	13.7 / 44.7	16.9 / 40.0	18.7 / 30.0	24.5 / 20.0	25.3 / 10.0	20.0	20.1 / 7.0	11.1 / 23.9	8.2 / 77.2
								7.4 / 139.0	13 WS / 144.1									
750	13 WS / 138.0	-8.6 / 132.0	-8.7 / 120.0	-6.5 / 110.0	-6.9 / 100.0	-6.8 / 90.0	-5.0 / 80.0	13 WS / 70.0	9.1 / 67.2	15.1 / 40.0	17.2 / 30.0	23.0 / 20.0	25.5 / 16.7	25.6 / 10.0	22.5	23.8 / 6.0	11.3 / 26.2	9.1 / 77.0
									5.6 / 71.0									
751	9.7 / 144.0	13 WS / 137.0	-9.2 / 130.0	-8.2 / 120.0	-9.3 / 110.0	-9.6 / 100.0	-6.9 / 90.0	-5.3 / 80.0	13 WS / 77.0	8.8 / 66.7	14.0 / 85.0	18.3 / 30.0	25.1 / 20.0	26.7 / 10	25.1	25.0 / 3.4	14.1 / 30.0	8.2 / 74.0

8/4																								
D 25 2)	1.4 / 121°	-1.4 / 131°	-4.9 / 140°	-5.9 / 110°	-5.9 / 10°	-5.7 / 90°	-5.1 / 80°	13.8 / 79°	10.2 / 65°	12.0 / 50°	5.7 / 60°	16.3 / 30°	18.9 / 30°	23.4 / 30°	26.5 / 10°	26.6	26.0 / 5.0	15.0 / 20°	11.9 / 30°	8.7 / 70°				
								10.8 / 136°																
7.5 E	1.8 / 132°	-1.0 / 130°	-5.6 / 120°	-5.9 / 110°	-5.7 / 100°	-5.7 / 90°	-5.9 / 80°	13.8 / 77°	10.0 / 65°	12.9 / 70°	14.5 / 30°	20.4 / 20°	23.0 / 10°	24.4 / 10.0	24.2	25.1 / 5.0	21.0 / 10.0	14.6 / 20°	9.3 / 90.°					
									8.7 / 142°															

This estimate includes all work of Dredger #5 for September, October and November 1908.
See Dredger Reports

-FED

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Cross Section to Show Effect of High Water on Grade, Flood of JAN 1909 Feb. 4. 1909

Sta	Lt				W.S.			C.				Rt	
E669	3.9 / 60.0	7.1 / 50.0	8.2 / 40.0	8.4 / 30.0	9.9 / 32.5	11.2 / 25.5	15.7 / 22.5	24.3 / 11.5	24.4	24.2 / 10.0	16.7 / 20.5	10.7 / 30.5	
670	3.9 / 60.0	6.4 / 50.0	8.4 / 41.3	W.S. 11.9 / 30.0	12.0 / 28.0	14.4 / 26.0		24.2 / 10.0	24.5	24.3 / 10.0	16.9 / 20.0	14.5 / 25.0	13.2 / 30.0	10.0 / 40.0
671	8.4 / 39.5	W.S. 9.2 / 39.0	11.2 / 30.0	12.4 / 27.0	14.0 / 23.6	16.5 / 22.0		24.6 / 10.0	24.6	24.3 / 9.3	17.7 / 20.0	15.5 / 26.0	12.7 / 30.0	10.0 / 40.0
				2.5 / 60.0	6.0 / 50.0								
721	8.4 / 58.2	W.S. 10.5 / 55.0	11.2 / 51.0	12.9 / 50.0	14.3 / 45.0	18.1 / 31.1		23.6 / 21.5	23.8	23.0 / 10.0	21.0 / 15.0	15.3 / 25.0	8.0 / 39.0
		-6.3 / 80.0	-6.1 / 75	-1.1 / 70.0	3.1 / 65.0	8.0 / 60.0							

1335

Cross Sections to Show Effect of High Water on Grade. Flood of June 1909
Feb. 7. 1909

84					Lt						C						Rt
E 719	3.7 / 65.0	8.4 / 60.2	W.S. 10.4 / 50.0	11.1 / 46.0	12.1 / 40.0	17.7 / 30.0	30.3 / 25.0	21.1 / 17.5	25.1	24.8 / 7.5	32.6 / 12.2	18.0 / 20.0	8.4 / 35.4				
					-7.5 / 75.0	-6.8 / 70.0											
D 764		18.8 / 41.0	12.1 / 34.0	15.4 / 31.0	19.5 / 25.0	25.9 / 19.0		25.5 / 16.0	26.0	25.7 / 7.0	17.1 / 16.0	14.9 / 20.0	11.6 / 25.0	11.1 / 30.0	10.3 / 40.0	25 / 50.0	
					-7.4 / 80.0	-3.9 / 75.0	4.6 / 70.0	W.S. 8.4 / 62.0		10.0 / 50.0							
D 766		9.6 / 46.0	10.9 / 36.0	14.4 / 30.0	16.0 / 28.0	17.6 / 22.0		20.3 / 14.0	22.1	22.2 / 4.0	14.2 / 16.0	13.0 / 20.0	11.8 / 25.0	11.2 / 36.0	10.8 / 50.0		
			-2.8 / 80.0	2.0 / 75.0	7.4 / 70.0	7.5 / 65.0	9.6 / 60.0	W.S. 8.4 / 54.0				9.6 / 40.0	W.S. 8.4 / 48.4				

Where the stations are only approximate the grade being taken at the center line.

1336

December 1908 to March 1st 1909

														C						
D 745	-8.6 / 110°	-8.0 / 100°	-6.7 / 90°	-5.6 / 80°	-3.6 / 70°	5.3 / 60.2	2.7 / 50°	23 / 40°	18.1 / 34.6	14.3 / 27°	25.6 / 10°	36.6	24.1 / 6°	17.8 / 16°	11.4 / 28.°	2° / 37.°				
	-7.8 / 190°	-8.5 / 180°	-9.7 / 140°	-7.8 / 150°	-8.1 / 160°												5.4 / 40.°			
746	-13° / 110°	-11.2 / 100°	-10° / 90°	-9.4 / 80°	-4.7 / 70°	4.2 / 62°	W.D. 7.1 / 60°	5.9 / 50°	10.2 / 42°	18° / 37.°	27° / 10.°	37.4 / 4°	26°	28.6 / 11°	14.4 / 22°	11.3 / 26°	7.° / 43.°			
	6.4 / 144°	4.2 / 150°	W.S. 12.4 / 140°	-2.0 / 130°	-9.9 / 100°															
747	-13.8 / 110°	-12.° / 100°	-11.° / 90.°	-8.4 / 80°	-3.1 / 70°	4.2 / 64°	W.D. 7.4 / 62.°	9.3 / 60°	12.° / 55°	21.2 / 2.°	24.9 / 15°	27.8 / 10.°	29.2 / 35	28.°	23.6 / 4.5	13.8 / 22°	12.° / 25	7.4 / 42.°		
	6.6 / 145°	4.2 / 148°	W.S. +2.5 / 140°	-1.0 / 130.°	-10.6 / 120.°															
748	-9.7 / 110°	-11.2 / 100.°	-9.3 / 90°	-5.5 / 80.°	-2.6 / 75°	4.2 / 70°	W.S. 7.7 / 60°	11.2 / 50°	13.° / 36°	19.7 / 25°	21.7 / 12°	23.2 / 7°	27.9 / 35	36.6	24° / 5.°	12.1 / 22.°	11.° / 31°	9.° / 41.°		
	7.2 / 141.°	4.2 / 138.°	W.S. -3.1 / 130.°	-9.0 / 120.°																

1337

	LT											C	RT				
D 949	-8.2 / 110°	-7.2 / 100°	-6.3 / 90°	-4.1 / 80°	4.2 / 72°	W.S. 8.0 / 70°	11.5 / 60°	14.4 / 40°	18.7 / 30°	24.0 / 20°	28.8 / 10°	28°	22.9 / 10°	14.9 / 20°	12.4 / 30°	9.1 / 40°	
	7.4 / 155°	4.2 / 152°	W.S. +3.5 / 150°	-3.6 / 140°	-7.2 / 130°	-7.0 / 120°											
950	-6.2 / 100°	-7.1 / 90°	-5.1 / 80°	-3.5 / 75°	4.2 / 69.5	W.S. 7.2 / 66°	8.5 / 60°	11 / 50°	13.7 / 40°	15.2 / 30°	23.3 / 20°	27.1 / 10°	27.4	26.3 / 6.5	21.5 / 10°	14.0 / 20°	7.2 / 74.2
	8.0 / 145°	4.8 / 142°	W.S. -4.6 / 130°	-7.4 / 120°	-9.0 / 110°												
951	-7.2 / 110°	-7.1 / 100°	-6.3 / 90°	-4.0 / 80°	-2.2 / 75°	4.2 / 69°	W.S. 4.8 / 64	8.2 / 60°	10.3 / 40°	18.4 / 30°	24.1 / 20°	29.3 / 10°	28.6	25.6 / 6°	20.3 / 10°	15.3 / 20°	8.3 / 74°
	9.7 / 145°	4.2 / 141°	W.S. -2.4 / 130°	-7.0 / 120°													
952	-6.5 / 110°	-7.1 / 100°	-5.4 / 90°	-5.0 / 80°	+3.0 / 70°	4.2 / 67°	W.S. 10.7 / 60°	15 / 50°	14.5 / 40°	19.1 / 30°	23.3 / 20°	27.8 / 10°	29°	28.9 / 8°	23.2 / 10°	16.7 / 20°	11.3 / 30° 8.8°
	10.8 / 142°	4.2 / 136°	W.S. -0.2 / 130°	-6.0 / 120°													

1338

753																									

II 757	-8.5 / 100.0	-5.7 / 90.0	-7.9 / 80.0	-1.8 / 75.0	4.2 / 70.0	W.S. 8.7 / 67.0	9.9 / 60.0	11.0 / 50.0		13.6 / 40.0	16.1 / 30.0	22.2 / 20.0	29.7 / 10.0	38.3	22.7 / 10.0	15.3 / 22.0	10.4 / 30.0	6.4 / 72.1	
					8.0 / 142.0	4.2 / 139.0	W.S. -0.4 / 130.0	-6.0 / 190.0	-8.1 / 110.0										
758	-9.0 / 110.0	-8.8 / 100.0	-8.6 / 90.0	-5.8 / 80.0	4.2 / 71.0	W.S. 9.6 / 67.0	10.1 / 60.0	11.1 / 50.0		13.6 / 40.0	15.8 / 30.0	21.8 / 20.0	28.6 / 10.0	28.6	25.2 / 5.0	21.5 / 10.0	16.0 / 20.0	15.7 / 22.0	12.9 / 30.0
					8.5 / 142.0	4.2 / 139.0	W.S. -2.8 / 130.0	-7.9 / 190.0											8.3 / 72.0
759	-9.6 / 100.0	-8.8 / 90.0	-4.8 / 80.0	-2.0 / 75.0	4.2 / 70.5	W.S. 10.1 / 69.0	11.3 / 50.0			12.5 / 40.0	15.2 / 30.0	20.9 / 20.0	25.9 / 10.0	26.4	21.9 / 10.0	16.3 / 22.0	12.4 / 30.0	11.0 / 40.0	8.2 / 71.0
					7.6 / 143.0	+4.2 / 141.0	W.S. -4.0 / 130.0	-8.8 / 190.0	-10.0 / 110.0										
760	-8.2 / 110.0	-9.3 / 100.0	-7.0 / 90.0	-4.7 / 80.0	-3.3 / 75.0	4.2 / 69.5	6.9 / 67.0	8.2 / 60.0	9.5 / 50.0	12.7 / 40.0	15.4 / 30.0	20.5 / 20.0	26.3 / 10.0	28.3	25.2 / 6.0	20.5 / 10.0	14.3 / 20.0	8.1 / 12.0	
					7.6 / 141.0	4.2 / 139.0	+1.0 / 130.0	-6.2 / 190.0											

1340

									27											
II 761	-9.8 / 100.°	-9.6 / 90.°	-5.0 / 80.°	10.2 / 70.°	4.2 / 64.5	WS	9.0 / 65.°	9.4 / 60.°	11.2 / 50.°											
					27 / 140.°	4.2 / 139.7	WS	-2.0 / 130.°	-8.3 / 120.°	-12.5 / 110.°										
762	-8.6 / 110.°	-9.3 / 100.°	-6.7 / 90.°	-3.6 / 80.°	-0.9 / 75.°	4.2 / 69.5	WS	9.4 / 65.°	6.4 / 50.°											
					7.3 / 140.°	4.2 / 139.6	WS	0.0 / 130.°	-7.0 / 120.°											
763	-9.7 / 100.°	-8.2 / 90.°	-5.8 / 80.°	-1.6 / 75.°	4.2 / 69.0	WS	9.1 / 65.°	9.6 / 60.°	9.3 / 50.°											
					6.8 / 145.°	4.2 / 139.0	WS	-3.0 / 130.°	-9.1 / 120.°	-2.8 / 110.°										
764	-8.0 / 100.°	-6.7 / 90.°	-5.8 / 80.°	-1.0 / 75.°	4.2 / 71.5	WS	7.6 / 69.5	8.8 / 60.°	9.8 / 50.°											
					5.4 / 138.°	4.2 / 137.0	WS	0.0 / 130.°	-7.4 / 120.°	-8.5 / 110.°										

									0						24					
II 761	13.6 / 40.°	16.6 / 30.°	23.5 / 20.°	27.2 / 10.°	26.3		20.6 / 10.°	13.6 / 30.°	11.7 / 40.°	9.6 / 50.°										
762	14.2 / 40.°	16.3 / 30.°	21.6 / 20.°	27.2 / 10.°	28.1		24.4 / 10.°	16.2 / 22.°	12.9 / 30.°	9.2 / 61.°										
763	12.6 / 40.°	16.4 / 30.°	23.4 / 20.°	28.1 / 10.°	27.6		20.9 / 10.°	13.1 / 22.°	12.2 / 30.°	9.4 / 55.°										
764	11.9 / 40.°	16.4 / 30.°	20.1 / 20.°	25.4 / 10.°	26.°		21.1 / 10.°	16.7 / 22.°	13.7 / 30.°	10.7 / 40.°	8.8 / 52.°									
																			9.2 / 68.°	

1341

March 1909

| | LT | | |

MARCH 1909

17

D 772	-5.6 / 110°	-5.7 / 100°	-5.3 / 90°	-3.4 / 80°	+1.1 / 75°	4.2 / 70.5	WS 7.0 / 69°	8.6 / 50°					C 9.8 / 70°	15.7 / 30°	20.9 / 30°	22.5 / 70°	21.1	16.9 / 10°	12.8 / 30°	8.7 / 50°	7.0 / 83°	
	7.7 / 145°	4.2 / 142.0°	WS 0.0 / 140.0°	-3.8 / 130°	-5.1 / 120°																	
773	-5.8 / 110°	-6.0 / 100°	-4.3 / 90°	-2.4 / 80°	3.0 / 73.0°	WS 4.7 / 70°	8.2 / 60°	8.8 / 50°					10.4 / 40°	17.4 / 30°	20.5 / 30.0°	21.8 / 70°	22.5	22.6 / 30°	18.2 / 10°	13.5 / 30°	13.1 / 30°	
	7.3 / 148°	3.5 / 145.5	WS. +2.0 / 142°	-3.6 / 130°	-6.3 / 120°														10.8 / 30°	8.7 / 40°	7.7 / 47°	
774	-4.5 / 110°	-4.0 / 100°	-3.2 / 90°	-2.4 / 80°	3.5 / 73°	WS. 7.9 / 68°	8.0 / 50°	10.8 / 41°					20.3 / 30°	21.5 / 20.0°	21.4 / 10°	19.8	15.9 / 10°	10.4 / 20°	6.5 / 22.0°	4.1 / 30°		
	6.7 / 154°	3.5 / 144°	WS. 0.9 / 130°	-4.3 / 120°														6.1 / 40°	5.9 / 47°			
775	-5.0 / 110°	-5.9 / 100°	-5.7 / 90°	-3.7 / 80°	3.5 / 74°	WS 7.5 / 71°	7.5 / 60°	7.6 / 50°					12.5 / 40.3	16.6 / 30.0°	18.0 / 20.0°	18.8 / 10°	19.7	16.0 / 10°	12.9 / 20°	12.3 / 22°	10.3 / 30°	
	6.5 / 152°	3.5 / 147°	WS. 0.0 / 140.0°	-4.7 / 130°	-5.6 / 120°														7.3 / 40°	7.3 / 60°		

1344

March 1909

II 776	6.1 / 100.0	-6.7 / 90.0	-3.8 / 80.0	3.5 / 70.0	WS 7.6 / 70.5	7.9 / 60.0	8.0 / 50.0	8.9 / 40.0	12.9 / 30.0	17.7 / 20.0	21.8 / 10.0	20.3	15.8 / 10.0	13.4 / 20.0	13.3 / 30.0	11.4 / 40.0				
	6.5 / 149.0	3.5 / 147.0	-3.8 / 140.0	-6.7 / 130.0	3.6 / 120.0	-3.7 / 110.0							10.0 / 50.0	8.0 / 60.0	8.8 / 70.0	7.4 / 80.0				
777	-6.8 / 100.0	-6.5 / 90.0	-7.6 / 80.0	3.5 / 74.0	WS 6.5 / 71.4	6.7 / 60.0	6.0 / 50.0	7.8 / 40.0	12.0 / 30.0	17.0 / 20.0	18.6 / 10.0	22.4	20.0 / 8.0	18.0 / 10.0	15.3 / 20.0	12.8 / 30.0				
	6.2 / 149.0	3.5 / 144.0	WS -2.7 / 140.0	-6.3 / 130.0	-7.3 / 120.0	-7.0 / 110.0							11.6 / 40.0	9.4 / 50.0	6.7 / 70.0					

1345

April 1909 Lt

C. Rt May 26, 09.

II 766	Same as for March 1909																						
767	-7.0 / 100.0	-4.7 / 110.0	-6.0 / 100.0	-3.9 / 90.0	-1.6 / 80.0	+2.3 / 70.0	3.6 / 66.5	W.S. 7.6 / 64.4	10.6 / 60.0	13.6 / 50.0	15.4 / 50.0	18.0 / 40.0	23.2 / 10.0	25.0	18.8 / 10.0	15.1 / 20.0	14.7 / 22.0	12.2 / 30.0	8.0 / 85.0				
	6.7 / 150.0	3.6 / 148.0	W.S. -0.9 / 140.0	-3.9 / 130.0																			
768	-4.2 / 120.0	-4.6 / 110.0	-5.1 / 100.0	-4.4 / 90.0	-3.7 / 80.0	-0.4 / 70.0	3.6 / 65.5	10.6 / 60.	11.9 / 50.	14.6 / 40.0	16.8 / 30.0	19.2 / 20.0	20.4 / 10.0	20.9	18.8 / 10.0	15.2 / 20.0	14.7 / 22.0	14.4 / 30.0	21 / 87.0				
	7.6 / 145.5	3.6 / 139.0	W.S. -2.6 / 130.0																				
769	-4.6 / 110.0	-5.7 / 100.0	-4.0 / 90.0	-3.9 / 80.0	3.6 / 69.0	W.S. 9.0 / 67.0	9.9 / 60.0	10.6 / 50.0	11.9 / 40.0	15.1 / 30.0	17.5 / 20.0	21.7 / 10.0	23.7 / 5.0	21.1	18.1 / 10.0	16.8 / 20.0	16.0 / 22.0	14.7 / 27.0	21 / 90.0				
	7.9 / 142.0	3.6 / 137.0	W.S. -2.3 / 130.0																				

1346

April 1908

April 1909

	Lt.														C.	Ht.			
V774	-8.7 / 110°	-8.8 / 100°	-7.7 / 90.°	-6.8 / 80°	3.6 WS / 70.°	7.7 / 68°	8.3 / 60.°	8.9 / 50.°	10.4 / 40°	16.1 / 35°	19.4 / 30°	21.1 / 20°	21.3 / 10.°	20.9	17.9 / 10.°	15.3 / 20.°	12.9 / 30.°	10.6 / 40°	10.4 / 40.°
						7.2 / 255°		6.9 / 205°	6.7 / 157°	3.6 WS / 145	-0.4 / 140°	-6.7 / 130°	-8.4 / 120.°		9.° / 50.°	7.6 / 60.°	7.0 / 71.°		
+5°	9.0 / 189°	7.° / 173°	6.8 / 155°	3.6 WS / 145°	-5.° / 140.°	-7.4 / 130°	-7.2 / 120.°	-5.8 / 110°		-6.7 / 100.°	-6.8 / 90.°	-3.8 / 80°	3.6 WS / 71°	7.6 / 68.°					
	7.2 / 293°	8.2 / 279°	11.9 / 271°	17.1 / 252°	21.2 / 234°	19.4 / 218°	18.1 / 206°												
175	-9.0 / 120°	-8.8 / 110°	-8.1 / 100.°	-7.9 / 90.°	-4.2 / 80°	3.6 WS / 73°	6.6 / 72	9.6 / 60°	28 / 50°	11.8 / 40°	17.2 / 30°	19.8 / 20°	22.1 / 10.°	23.1	18.9 / 10.°	15.° / 20°	14.8 / 22.°	11.° / 30°	9.2 / 40°
	7.2 / 308°	10.8 / 295	21.5 / 237°	17.9 / 220°	13.3 / 204.°	6.8 / 192°	6.5 / 175°	3.9 / 167°		-0.9 / 160°	-2.8 / 150°	-4.4 / 140°	-6.1 / 130.°		7.0 / 63.°				
+50	-5.4 / 190°	-6.2 / 180°	-5.7 / 170°	-6.2 / 160°	-6.8 / 150°	-6.4 / 140°	-5.1 / 130°	-8.2 / 120°		-8.7 / 110°	-9.2 / 100°	-9.1 / 90.°	-8.8 / 80°	3.6 WS / 71°	6.7 / 70°				
								7.2 / 250°		7.2 / 230°	3.6 WS / 217°	-1.° / 210.°	-4.3 / 200.°						
176	7.2 / 120°	-6.9 / 110°	-6.8 / 100°	-5.9 / 90.°	-4.6 / 80°	3.6 WS / 73°	2.4 / 70°	2.5 / 60.°	7.5 / 50°	8.2 / 40°	18.° / 30°	16.7 / 20°	21.7 / 10.°	22.°	16.4 / 10.°	14.9 / 20.°	14.8 / 22.°	13.4 / 30°	11.2 / 40.°
	7.5 / 248°	6.2 / 238°	3.6 WS / 225°	-2.5 / 210.°	-2.9 / 200.°	-3.9 / 190°	-4.3 / 180°	-3.8 / 170°	-6.6 / 160°	-6.9 / 150°	-5.1 / 140°	-5.2 / 130°			9.3 / 50°	8.6 / 60°	8.1 / 70.°	9.4 / 80.°	
	10° / 260°	6.9 / 280.°	6.8 / 300.°																
+50	-1.3 / 190°	-3.2 / 180.°	-4.2 / 170.°	-3.3 / 163°	-5.7 / 150°	-4.8 / 140.°	-5.9 / 130°	-6.6 / 120°	-6.4 / 110.°	-6.9 / 100.°	-7.3 / 90.°	-7.° / 80.°	3.6 WS / 79.5	6.6 / 69°					
						6.8 / 302°	8.3 / 289°	13.3 / 259°	12.° / 239°	8.7 / 245°	6.4 / 206°	3.6 WS / 201°							
177	-6.6 / 110.°	-5.5 / 100.°	-5.4 / 90°	-2.5 / 80°	3.6 WS / 69°	6.2 / 68.°	6.4 / 60°	7.5 / 50°		8.3 / 40°	11.5 / 30°	15.8 / 20°	20.5 / 10.°	24.2	19.3 / 10.°	18.1 / 20.°	13.9 / 30°	11.6 / 40.°	9.2 / 50°
	6.5 / 306°	11.° / 288°	12.6 / 277°	19.8 / 233°	14.7 / 214°	10.7 / 193°	8.3 / 181°	7.1 / 164°	3.6 WS / 162.°	-3.6 / 150°	-5.4 / 140.°	-6.2 / 130°	-6.4 / 120.°		6.7 / 70.°				
+50	3.6 WS / 146°	-1.6 / 140°	-5.7 / 130°	-7.4 / 120.°	-8.° / 110.°	-8.6 / 100.°	-7.2 / 90.°			-3.8 / 80.°	3.6 / 70°	5.9 / 69°							
						6.7 / 299°	10.9 / 246.°	18.3 / 228°		18.5 / 219°	11.1 / 182°	8.8 / 150.°							

1348

April 1909

	L+									C	R+			
II 778	-7.0 / 110°	-6.6 / 100°	-5.3 / 90°	-2.4 / 80°	3.6 / 71.5	7.9 / 69°	8.8 / 60°	7.8 / 50°	7.9 / 70.1	11.7 / 30°	16.7 / 20°	18.3 / 10°	22.8	18.4 / 10°	15.5 / 20°	14.0 / 30°	11.2 / 40°
			6.3 / 205°	6.7 / 152°	3.6 WS / 145°	-4.4 / 130°	-6.2 / 120°							8.0 / 50°	7.5 / 60°	7.0° / 80°	
779	-7.1 / 100°	-6.6 / 90°	-5.8 / 80°	3.6 / 73°	3.4 WS / 70°	7.9 / 60°	7.6 / 50°	6.5 / 40°	7.9 / 30°	11.0 / 25°	17.7 / 20°	18.5 / 10°	20.9	20.8 / 10°	16.5 / 20°	13.9 / 30°	12.1 / 40°
	6.5 / 156°	3.6 WS / 154°	-2.3 / 150°	-6.5 / 140°	-7.2 / 130°	-7.0 / 120°	-8.0 / 110°							9.7 / 50°	8.5 / 60°	8.0 / 70°	
780	-6.7 / 120°	-7.1 / 100°	-7.2 / 90°	-6.3 / 80°	5.6 / 72°	5.2 WS / 70.4	6.0 / 60°	6.1 / 51°	5.5 / 40°	8.2 / 30°	14.9 / 20°	18.5 / 10°	18.9	17.3 / 10°	14.8 / 20°	11.8 / 30°	10.4 / 40°
			5.9 / 146°	3.6 WS / 144.5	+1.0 / 140°	-3.9 / 130°								8.9 / 50°	7.6 / 60°	7.0 / 80°	
781	-5.5 / 100°	-5.9 / 90°	-4.3 / 80°	3.6 WS / 72°	5.8 / 69.4	6.1 / 60°	6.3 / 50°	6.7 / 40°	10.6 / 30°	16.6 / 20°	19.1 / 10°		21.2	18.9 / 10°	15.6 / 20°	13.0 / 30°	7.6 / 40°
			6.3 / 170°	3.6 / 157°	-3.4 / 130°	-5.0 / 120°	-4.1 / 110°							6.6 / 52°			

1349

May, 1909.

Same as for April.

D781

D782 $\frac{-3^{2}}{80}$ $\frac{3^{1}}{70^{3}}$ W.S. $\frac{8^{0}}{69}$ $\frac{8^{1}}{60}$ $\frac{7^{2}}{50}$ $\frac{7^{9}}{40}$ $\frac{11^{4}}{30}$ $\frac{11}{20}$ $\frac{17^{9}}{10}$ 18^{8} $\frac{16^{9}}{10}$ $\frac{14^{4}}{20}$ $\frac{11^{2}}{30}$ $\frac{10^{2}}{40}$ $\frac{9^{0}}{50}$ $\frac{7^{1}}{70}$

$\frac{6^{3}}{135}$ $\frac{3^{1}}{133}$ W.S. $\frac{0.0}{130}$ $\frac{-6^{2}}{120}$ $\frac{-5^{3}}{110}$ $\frac{-5^{2}}{100}$ $\frac{-5^{4}}{90}$

783 $\frac{-5^{5}}{80}$ $\frac{3^{1}}{79.5}$ W.S. $\frac{6^{3}}{75}$ $\frac{6^{5}}{70}$ $\frac{6^{5}}{60}$ $\frac{6^{0}}{50}$ $\frac{7^{2}}{40}$ $\frac{14^{3}}{30}$ $\frac{17^{0}}{20}$ $\frac{19^{0}}{10}$ 19^{1} $\frac{16^{4}}{10}$ $\frac{13^{7}}{20}$ $\frac{11^{7}}{30}$ $\frac{10^{2}}{40}$ $\frac{7^{2}}{50}$ $\frac{6^{3}}{70}$

$\frac{6^{0}}{170^{3}}$ $\frac{3^{1}}{138}$ W.S. $\frac{-7^{8}}{130}$ $\frac{-5^{1}}{120}$ $\frac{-6^{2}}{110}$ $\frac{-5^{5}}{100}$ $\frac{-4^{4}}{90}$

784 $\frac{-2^{0}}{80}$ $\frac{3^{1}}{75}$ W.S. $\frac{6^{4}}{72}$ $\frac{6^{6}}{70}$ $\frac{6^{8}}{60}$ $\frac{7^{0}}{50}$ $\frac{6^{3}}{40}$ $\frac{11^{2}}{30}$ $\frac{16^{1}}{20}$ $\frac{17^{6}}{10}$ 19^{1} $\frac{16^{4}}{10}$ $\frac{14^{1}}{20}$ $\frac{11^{6}}{30}$ $\frac{9^{5}}{40}$ $\frac{7^{5}}{50}$ $\frac{6^{2}}{54}$

$\frac{6^{2}}{139}$ $\frac{3^{1}}{134}$ W.S. $\frac{-5^{5}}{130}$ $\frac{-5^{5}}{120}$ $\frac{-3^{1}}{110}$ $\frac{-3^{7}}{100}$ $\frac{-4^{1}}{90}$

785 $\frac{-6^{2}}{80}$ $\frac{1^{1}}{70}$ $\frac{3^{1}}{68}$ W.S. $\frac{5^{8}}{67}$ $\frac{6^{0}}{60}$ $\frac{6^{2}}{50}$ $\frac{7^{3}}{40}$ $\frac{12^{2}}{30}$ $\frac{17^{8}}{20}$ $\frac{18^{4}}{10}$ 18^{7} $\frac{16^{2}}{10}$ $\frac{14^{8}}{20}$ $\frac{12^{8}}{30}$ $\frac{10^{3}}{40}$ $\frac{8^{7}}{50}$ $\frac{6^{8}}{60}$

$\frac{6^{3}}{139}$ $\frac{3^{1}}{137}$ W.S. $\frac{-6^{1}}{130}$ $\frac{-6^{1}}{120}$ $\frac{-5^{1}}{110}$ $\frac{-6^{5}}{100}$ $\frac{-6^{3}}{90}$

1350

May, 1909.

D 786	-6^{2}_{90}	-4^{9}_{80}	W.S. 3^{1}_{72}	5^{5}_{69}	5^{5}_{60}	6^{2}_{50}	6^{3}_{40}	11^{8}_{30}	18^{0}_{20}	19^{0}_{10}	18^{0}	17^{1}_{10}	16^{1}_{20}	15^{4}_{30}	13^{1}_{40}	10^{8}_{50}	7^{4}_{60}	6^{1}_{64}
	5^{2}_{144}	W.S. 3^{1}_{142}	$+6.3$ 140	-5^{6}_{130}	-6^{3}_{120}	-6^{9}_{110}	-6^{9}_{100}											
787	-6^{4}_{90}	-4^{2}_{80}	W.S. 3^{1}_{75}	4^{9}_{74}	5^{2}_{70}	5^{4}_{60}	5^{9}_{50}	6^{6}_{40}	10^{3}_{30}	16^{3}_{20}	19^{2}_{10}	17^{3}	16^{4}_{10}	15^{0}_{20}	14^{2}_{30}	12^{5}_{40}	10^{5}_{50}	8^{5}_{60}	7^{5}_{62}
	$5^{5}_{143^{5}}$	W.S. 3^{1}_{143}	-1^{6}_{140}	-6^{4}_{130}	-7^{0}_{120}	-6^{8}_{110}	-6^{9}_{100}											
788	-4^{1}_{80}	-0^{4}_{75}	W.S. $3^{1}_{69^{5}}$	5^{0}_{67}	5^{2}_{60}	5^{2}_{50}	9^{2}_{40}	12^{1}_{30}	15^{5}_{20}	18^{8}_{10}	18^{4}	16^{3}_{10}	14^{8}_{20}	14^{3}_{30}	12^{5}_{40}	10^{5}_{50}	8^{0}_{60}	6^{1}_{64}
	5^{1}_{147}	W.S. 3^{1}_{145}	-5^{4}_{140}	-7^{2}_{130}	-7^{3}_{120}	-7^{4}_{110}	-6^{6}_{100}	-6^{9}_{90}										
789	-7^{8}_{80}	W.S. $3^{1}_{74^{5}}$	4^{0}_{73}	4^{2}_{70}	4^{3}_{60}	4^{7}_{50}	8^{0}_{40}	10^{3}_{30}	15^{6}_{20}	19^{3}_{10}	18^{4}	17^{1}_{10}	14^{7}_{20}	13^{6}_{30}	11^{6}_{40}	8^{5}_{50}	6^{0}_{55}	
	4^{7}_{141}	W.S. 3^{1}_{140}	-5^{0}_{130}	-7^{7}_{120}	-7^{8}_{110}	-8^{1}_{100}	-7^{5}_{90}											

June 5, 09.

1351

June 1909

D 775 Same as for April 1909.

See Dredger Reports for Segregation of Time showing work preformed in June and July.

776	-9.5 / 110°	-9.3 / 100°	-8.8 / 90°	-4.7 / 80°	2.4 / 75.0	W.S. 5.6 / 70°	6.2 / 60.0	8.3 / 50°	10.5 / 40°	13° / 30°	16.3 / 20°	22.4 / 10°	-1.7 / 0.8°	18.5 / 10.0	16.0 / 20.0	14.2 / 30.0	12.9 / 40°	10.3 / 50°	8.1 / 70°					
	-2.9 / 220°	-3.2 / 210.0	-3.8 / 200°	-4.0 / 190.0	-5.4 / 180°	-6.2 / 170°	-6.3 / 160°	-5.6 / 150.0	-5.6 / 140°	-7.8 / 130°	-7.7 / 120.0													
	2.4 / 0	W.S. 6.3 / 228°																						
777	-9.2 / 100°	-6.7 / 90°	-5.5 / 80°	2.4 / 75°	W.S.	5.2 / 69.7	5.1 / 50°	8.8 / 40°	12.3 / 30°	-8.2 / 8.7	16.6 / 20°	21.8 / 10.0	-1.4 / 22.6	21.8 / 10.0	17.1 / 20°	-8.8 / 28.8 / 14.0 / 30°	11.2 / 40°	8.5 / 47°						
	7.1 / 164°	2.4 / 160°	W.S. -2.4 / 150°	-6.2 / 140°	-8.0 / 130°	-8.2 / 120°	-7.0 / 110°																	
778	-8.8 / 100°	-8.1 / 90.0	-5.2 / 80°	2.4 / 72.0	W.S. 6.5 / 69.8	7.4 / 60°	8.0 / 50°	10.7 / 40°	13.2 / 30°	-6.5 / 22.6	17.4 / 20°	22.5 / 10°	-1.4 / 22.6	21.6 / 10°	18.1 / 20°	-6.5 / 22.0 / 16.1 / 30°	14.0 / 40°	11.7 / 50°	10.4 / 60°	8.1 / 70°				
	6.7 / 152°	2.4 / 144°	W.S. -2.8 / 140°	-8.0 / 130°	-10.2 / 120°	-7.7 / 110°																		

1352

June and July 1909

II 779	-10.9 / 100.°	-10.5 / 90.°	-4.0 / 80.°	2.4 W.S. / 75.°	7.8 / 69.°	7.8 / 60.°	7.7 / 50.°	11.7 / 40.°	14.9 / 30.°		19.9 / 20.°	+0.6 / -1.0 / 2.46 / 10.°	C. -0.8 / 23.2		20.4 / 10.°	16.3 / 20.°	-10.2 / -9.9 / 13.2 / 30.°	11.6 / 40.°	8.3 / 50.°	7.0 / 60.°		
				6.7 / 159.°	2.4 W.S. / 149.°	-8.4 / 130.°	-9.5 / 120.°	-10.9 / 110.°														
780	-9.6 / 100.°	-9.4 / 90.°	-4.5 / 80.°	2.4 W.S. / 75.°	7.0 / 70.°	8.8 / 60.°	9.1 / 50.°	13.3 / 40.°	17.5 / 30.°		21.6 / 20.°	+0.3 / 1.° / 2.43 / 10.°	-3.1 / 20.9		18.1 / 10.°	15.9 / 20.°	12.6 / 30.°	-12.7 / -13.8	11.1 / 40.°	9.4 / 50.°	8.7 / 60.°	8.4 / 70.°
				5.9 / 159	2.4 W.S. / 154.°	-0.9 / 150.°	-5.6 / 140.°	-8.6 / 130.°	-9.8 / 120.°	-9.9 / 110.°												
June																						
781	-6.6 / 100.°	-6.6 / 90.°	-3.7 / 80.°	2.4 W.S. / 75.°	7.0 / 69.°	8.5 / 60.°	7.6 / 50.°	11.9 / 40.°	16.9 / 30.°		19.6 / 20.°	-0.3 / 9.6 / 2.35 / 10.°	-1.5 / 20.5		-18.9 / 10.°	Same as for April 1909						
				6.3 / 164.°	2.4 W.S. / 154.°	-0.8 / 150.°	-1.9 / 140.°	-4.6 / 130.°	-5.6 / 120.°	-6.4 / 110.°												
July.																						
782	-6.0 / 90.°	-3.6 / 80.°	2.4 W.S. / 72.°	7.4 / 69.°	8.1 / 60.°	9.9 / 50.°	13.7 / 40.°	16.3 / 30.°	19.1 / 20.°			-4.2 / 17.4	23.3 / 10.°	-3.3 / 20.7	16.9 / 10.°	same as for May 1909						
				6.3 / 161.°	2.4 W.S. / 152.°	-0.7 / 140.°	-4.7 / 130.°	-5.0 / 120.°	-6.6 / 110.°			-6.5 / 100.°										

1353

June and July 1909.

	Lt.																		Rt.	
D 783	-4.3 / 90.°	-2.9 / 80.°	8.4 / 76.°	W.S. 9.8 / 73.°	10.6 / 70.°	11.2 / 60.°	10.2 / 50.°	13.5 / 40.°	12.7 / 30.°				+0.4 / 10.	C. -13.5	20.5	16.4 / 10.0	Same as for May 1909			
	6.0 / 160.°	2.4	W.S. -0.3 / 150	-2.1 / 140.°	-4.2 / 130.°	-6.2 / 120.°	-6.5 / 110.°	-6.8 / 100.°												
784	-6.8 / 90.°	-2.4 / 80.°	2.4 / 76.°	W.S. 8.1 / 70.°	10.8 / 60.°	12.6 / 50.°	14.1 / 40.°	16.2 / 30.°	20.9 / 20.°				-1.1 / 11.2	-3.4	20.6 / 10.°	17.6 / 10.°	Same as for May 1909			
	6.2 / 166.°	2.4 / 164.°	W.S. +0.3 / 160.°	+1.3 / 150.°	-4.6 / 140.°	-5.8 / 130.°	-5.9 / 120.°	-7.1 / 110.°	-9.9 / 100.°											
785	-8.0 / 90.°	+5.5 / 80.°	8.4 / 70.°	W.S. -5.9 / 67.°	6.9 / 60.°	10.1 / 50.°	12.4 / 40.°	16.0 / 30.°	19.8 / 20.°				-0.8 / 13.°	-4.5	21.3 / 10.°	19.5	16.8 / 10.°	Same as for May 1909		
	-0.2 / 160.°	-0.5 / 150.°	-3.4 / 140.°	-5.2 / 130.°	-4.2 / 120.°	-6.4 / 110.°	-6.8 / 100.°													
	-6.8 / 168.°	2.4	W.S. / 166.0																	
786	-7.4 / 100.°	-5.6 / 90.°	-3.3 / 80.°	2.4	W.S. 7.0 / 70.°	7.8 / 60.°	10.1 / 50.°	12.4 / 40.°	16.3 / 30.°				-2.1 / 20.	-4.2	20.3 / 20.°	21.8 / 10.°	19.8	19.1 / 10.°	Same as for May 1909	
	5.7 / 164.°	2.4	W.S. / 161.°	-2.0 / 150.°	-5.3 / 140.°	-4.9 / 130.°	-5.0 / 120.°	-6.9 / 110.°												

1354

June and July 1909

	It										C		It		
D 787	-6.6 / 100.°	-5.6 / 90.°	2.4 / 77.°	W.S. 6.7 / 70.°	6.2 / 60.°	7.6 / 50.°	11.9 / 40.°	14.8 / 30.°	18.8 / 20.°	-1.8 / 10.°	20.7 / 10.°	-5.9 / 30.1	17.0 / 10.°	Same as for May 1909	
	5.5 / 168.0		2.4 / 162.°	W.S. 0.0 / 150.°	-2.6 / 140.°	-4.9 / 130.°				-6.4 / 120.°	-6.6 / 110.°				
788	-5.6 / 90.°	-2.6 / 80.°	2.4 / 76.°	W.S. 6.1 / 65.°	6.2 / 60.°	7.4 / 50.°	11.7 / 40.°	15.1 / 30.°	18.7 / 20.°	-3.1 / 15.2	21.8 / 10.°	-3.0 / 21.0	16.3 / 10.°	Same as for May 1909	
	5.1 / 176.°		2.4 / 162.°	W.S. +1.8 / 150.°	-2.1 / 140.°	-6.5 / 130.°	-7.2 / 120.°	-7.6 / 110.°		-8.0 / 100					
July 789	-7.9 / 90.°	-4.1 / 80.°	2.4 / 76.°	W.S. 7.0 / 75.°	7.5 / 70.°	6.9 / 60.°	9.3 / 50.°	9.7 / 40.°	15.5 / 30.°	-2.7 / 14.8	18.4 / 20.°	-3.8 / 22.1 / 10.°	90.2	17.1 / 10.°	Same as for May 1909
	4.7 / 159.°		2.4 / 150.°	W.S. -4.2 / 140.°	-5.9 / 130.°	-6.3 / 120.°				-7.0 / 110.°	-6.4 / 100.°				
June 790	-3.9 / 80.°	2.4 / 71.°	W.S. 5.9 / 75.°	6.1 / 70.°	5.8 / 60.°	5.7 / 50.°	7.7 / 40.°	12.5 / 30.°	-17.3 / 43.°	16.6 / 20.°	17.2 / 10.°	-8.5 / 15.6	18.8 / 10.°	18.8 / 20.°	17.0 / 30.°	19.0 / 40.°	20.5 / 50.°	5.1 / 60.°	-19.4 / 36.8
	4.8 / 146.°		2.4 / 144.°	W.S. -4.4 / 140.°	-7.0 / 130.°	-6.6 / 120.°	-7.0 / 110.°	-6.9 / 100.°		-6.0 / 90.°					

1355

June and July 1909

D 791	-6.3 / 90.0	-2.8 / 80.0	2.4 / 77.0	WS -5.9 / 75°	-5.2 / 70.0	-5.4 / 60.0	-4.8 / 50.0	8.6 / 40.0	-18.0 / 35° 11.5 / 35°	12.1 / 30°	17.3 / 20°	17.1 / 10.0	C -9.7 / 16.3	16.3 / 10.0	14.4 / 20.0	12.3 / 30.0	-13.2 / 35.4	9.5 / 40.0	6.8 / 47.0				
	4.5 / 146.0	2.4	WS -2.5 / 142.0	-4.9 / 140.0	-6.9 / 130.0	-6.9 / 120.0	-6.8 / 110.0	-6.8 / 100.0															
792	-5.5 / 90.0	-4.2 / 80.0	2.4 / 72.0	WS 2.6 / 70.7	6.3 / 60.0	6.2 / 50.3	10.5 / 40.0	14.4 / 30.0		-18.7 / 21.8	17.7 / 20.0	16.5 / 10.0	-9.4 / 15.6	14.4 / 10.0	10.4 / 20.0	10.4 / 30.0	8.4 / 40.0	-19.2 / 47.0 / 6.9 / 48.0					
	4.5 / 153.0	2.4	WS -6.6 / 152.0	-5.7 / 140.0	-6.2 / 130.0	-6.0 / 120.0	-6.2 / 110.0																
793	-5.6 / 100.0	-5.0 / 90.0	-2.2 / 80.0	2.4 / 72.0	WS -3.9 / 70.0	4.3 / 60.0	4.7 / 50.0	9.9 / 40.0	18.5 / 30.0		-6.0 / 19.0 / 19.0 / 10.0	16.7	-12.3 / 11.7	9.9 / 10.0	8.6 / 20.0	7.5 / 30.0	8.1 / 40.0	-19.3 / 47.4 / 6.6 / 47.0						
	9.0 / 159.0	2.4	WS -0.8 / 155.0	-5.5 / 150.0	-6.2 / 140.0	-6.4 / 130.0	-6.1 / 120.0																
794	-5.5 / 110.0	-5.9 / 100.0	-5.4 / 90.0	-1.6 / 80.0	2.4 / 77.0	WS 4.5 / 70.0	7.5 / 60.0	12.8 / 50.0	18.8 / 40.0	17.6 / 30.0	-5.8 / 19.4 / 20.0	19.5 / 10.0	-4.5 / 19.4	12.0 / 10.0	5.4 / 20.0	3.3 / 30.0	-10.6 / 40.0	4.4 / 45.0	4.3 / 50.0	3.3 / 60.0	6.7 / 70.0	5.5 / 74.0	
	3.0 / 157.0	2.4	WS -5.4 / 154.0	-5.4 / 150.0	-4.8 / 140.0	-5.0 / 130.0	-6.4 / 120.0																

1356

July 1909

Lt

II 795 -6.3/100.0 -4.8/90° 2.4/76° WS 2.1/73° 3.3/70° 3.9/60° 4.7/50° 6.8/40° 10.8/30°

4.8/151.0 2.4 WS -5.8/140° -7.4/130° -6.8/120° -6.2/110°

796 -6.1/90.0 -2.6/80° 2.4/74° WS 1.2/73° 2.6/70° 2.0/60° 7.1/50° 9.7/40° 15.3/30°

3.9/148.° 2.4 WS -4.2/141° -7.1/130° -7.3/120° -6.7/110° -7.8/100°

July

797 -8.2/90.° -7.6/80° 2.4/74° WS -5.4/73° 5.5/70° 5.7/60° 6.0/50° 10.0/40° 16.1/30°

4.3/144.° 2.4/143.° WS -2.6/140° -7.6/130° -7.3/120° -8.8/110° -8.8/100°

798 -6.4/90° -4.6/80° 2.4/74° WS 4.3/73° 5.1/60° 6.0/50° 8.3/40° 14.5/30°

4.6/137.° 2.4 WS/132° -1.3/130.° -5.6/120° -7.0/110° -6.5/100°

(-6.4/31.8) 7.5/24° 16.9/10°

C (-5.1) 16.8 15.0/10° 14.2/20° 12.3/30°

Rt (-10.2/34.4) 10.5/40° 8.2/50° 7.2/52°

(-4.7/30.4) 18.8/20° 18.7/10°

(-3.3) 20.5 16.4/10° 14.0/20° 11.8/30° 7.2/40° 4.2/43.7

(-18.2/28.4)

(-4.9/32.8) 19.0/20° 18.5/10°

(-5.8) 18.1 15.1/10° 12.3/20° 11.8/30° 9.4/40° 8.5/50°

(-14.5/32.°)

-8.8/110° -8.8/100°

19.3/20° 18.9/10° 19.6 19.2/10° 18.3/20° 12.3/30° 10.0/40° 9.1/50°

Note - figures in small circle are not connected with this estimate but are for benefit of Dredge inspector being where roof slope notches.

P.E.D.

1357

July 1909 continued

Lt. | Rt August 4, 1909

D 799	-3.9 / 80°	1.9 WS / 75°	7.5 / 78°	6.5 / 60°	6.9 / 50°	9.3 / 40°	14.2 / 30°	19.5 / 20°	19.8 / 17.0	21.7 / 10.°	C 22.6	19.1 / 70.°	16.0 / 20.°	14.8 / 30°	13.5 / 40.°	11.2 / 50°	9.8 / 59.°		
	4.8 / 144.°	1.9 WS / 142.°	-6.1 / 130.°	-6.4 / 120.°	-5.7 / 110.°	-5.0 / 100.°	-5.5 / 90.°												
D 800	-9.1 / 100°	-7.9 / 90.°	-7.5 / 80.°	-1.7 / 70.°	1.9 WS / 67.°	10.0 / 60.°	12.8 / 50.°	15.0 / 40.°	18.7 / 30.°	20.° / 20.°	22.8 / 10.°	21.4	20.1 / 10.°	16.5 / 20.°	14.4 / 30.°	13.4 / 40.°	10.7 / 50.°	10.2 / 55.°	
	.52 / 138.°	1.9 WS / 137.°	-7.0 / 130.°	-8.7 / 120.°	-9.1 / 110.°														

D 801 Dredger #5 Now working at this station - August 4th 09. Did a little work previous to August 1st on this station but will have to go in on the August estimate as the Dredger has been back over some of the July work at D 799 and D 800 J.E.D.

1358

August 1909

September 1909

											C.		Rt				
July II 201	-8.5 / 80.0	14 WS / 71.0	8.8 / 68.0	10.5 / 60.0	14.5 / 50.0	17.9 / 40.0	18.0 / 30.0	20.8 / 20.0	24.0 / 10.0	24.4	19.0 / 10.0	16.5 / 20.0	14.9 / 30.0	13.2 / 40.0	10.8 / 50.0	11.3 / 55.0	
	6.0 / 144.0	14 WS / 140.0	-8.2 / 130.0	-9.1 / 120.0	-9.1 / 110.0	-9.5 / 100.0	-9.5 / 90.0										
August 802	-9.4 / 80.0	14 WS / 69.5	8.8 / 66.0	10.0 / 60.0	10.8 / 50.0	14.0 / 40.0	16.5 / 30.0	20.0 / 20.0		22.5 / 10.0	24.1	21.7 / 10.0	16.8 / 20.0	15.0 / 30.0	13.9 / 40.0	13.0 / 50.0	11.8 / 55.0
	7.0 / 142.0	14 WS / 141.0	-6.8 / 130.0	-9.1 / 120.0	-9.2 / 110.0	-9.0 / 100.0	-9.2 / 90.0										
803	-7.6 / 80.0	14 WS / 70.0	9.3 / 67.0	9.9 / 60.0	10.5 / 50.0	12.6 / 40.0	15.8 / 30.0	18.4 / 20.0		22.8 / 10.0	22.7 / 10.0	22.5	18.4 / 10.0	16.0 / 20.0	12.9 / 30.0	13.1 / 40.0	11.7 / 45.0
	7.6 / 136.0	14 WS / 132.0	-8.6 / 130.0	-8.6 / 120.0	-9.6 / 110.0	-9.0 / 100.0	-9.2 / 90.0										
August 804	-8.6 / 80.0	-0.1 / 70.0	14 WS / 64.5	7.0 / 60.0	9.9 / 50.0	10.2 / 40.0	16.9 / 30.0			19.8 / 20.0	23.1 / 10.0	21.8	19.8 / 10.0	17.7 / 20.0	15.5 / 30.0	12.1 / 40.0	11.8 / 50.0
	8.2 / 131.0	14 WS / 129.0	-8.7 / 120.0	-10.1 / 110.0	-9.9 / 110.0	-9.0 / 100.0	-9.1 / 90.0										

G.E.D.

1359

September 1909

Sept.																			
II 805	-10.0 / 80.0	-5.8 / 70°	1.4 / 65°	WS 10.0 / 62°	10.3 / 60°	10.9 / 50°	11.0 / 40°	11.2 / 30°	18.7 / 30°	21.6 / 19°	23.4	21.1 / 10°	18.8 / 20°	17.2 / 30°	14° / 40°	13.8 / 50°	12 / 70°		
	85 / 144°	1.4 / 142	WS -12 / 140°	-8.6 / 130°	-7.4 / 120°	-8.6 / 110°	-10° / 100°	-9.4 / 90°											
806	-8.6 / 90°	-8.9 / 80°	1.4 / 50°	WS 11.5 / 63°	11.4 / 60°	11.8 / 50°	11.7 / 40°	12.0 / 30°	17.1 / 30°	20.9 / 18°	23.6	22.7 / 9°	19.1 / 20°	16.9 / 30°	15° / 40°	13.2 / 50°			
	9.7 / 150°	1.4 / 148.4	WS -11 / 140°	-9.4 / 130°	-10.1 / 120°	-9.6 / 110°	-9.6 / 100°												
807											23.8								

1360

October 1909 — November 3, 1909

	Lt.	C	Rt
II 808	Same as for September 1909		
809	-9.0/90° -7.4/80° 13/71° 10.1/66° 9.8/80° 6.2/70° 1.8/80°	22.7/20° 22.3/10° 31'	20.1/10° 16.1/30° 14.1/30° 11.4/40° 10.2/50° 9.5/60° 8.0/67°
	9.9/148° 13 WKS/145° -5.4/140° -10.2/130° -10.1/120° -9.8/110° -7.7/100°		
810	-9.0/110° -9.3/100° -8.6/90° -8.0/80° +0.4/75° 13 WKS/71° 8.9/69°	8.7/50° 14.7/40 21.6 23/17 23.4	19.4/6 15.4/16 5.3/60
	9.0/151° 13 WKS/144° -8.4/140° -9.5/130° -8.9/120°		
+90	-8.5/130° -8.4/120° -9.0/110° -8.0/100° -7.4/90° -4.6/80° 13 WKS/75	8.2/69° 8.1/60° toe of slope of fill	
November 09			
	8.9/148° 13 WKS/140° -0.7/140°		
811 +15		Original Cross Section Nov. 3, 1909 GEA	

1361

November 1909

December 1909

						L.T.											
II 815	-5.3 / 80.0	-4.4 / 75.0	4.3 / 69.0	4.2 W.S. / 67.5	10.1 / 60.0	8.9 / 50.0	19.0 / 40.0	17.0 / 30.0	20.8 / 20.0	20.6 / 10.0	20.5	16.7 / 10.0	15.3 / 20.0	13.4 / 30.0	11.7 / 40.0	5.9 / 47.0	
				7.6 / 145.0	4.5 W.S. / 142.0	-5.4 / 130.0	-6.5 / 120.0	-6.2 / 110.0	-6.4 / 100.0	-5.4 / 90.0							
816	-7.0 / 90.0	-6.1 / 80.0	-4.0 / 75.0	4.3 W.S. / 68.0	7.8 / 65.0												
				7.7 / 142.0	4.3 W.S. / 140.5	-5.4 / 130.0	-7.0 / 120.0	-7.3 / 110.0		-7.1 / 100.0							
1+30	+1.1 / 120.0	-0.5 / 110.0	-1.1 / 100.0	-0.1 / 90.0	0.0 / 80.0	4.3 / 72.5	7.6 W.S. / 67.0										
					7.5 / 138.0	4.3 W.S. / 136.0	4.2 / 130.0										
1+40	Original X Section																

No drill operation
Piers station

P.E.D.

1363

January 1910 | February 8, 1910

910																
				L+								C.			Pt	
II 816	-6.0 / 80°	-4.6 / 75°	3.2 / 69.5	W.S. 7.8 / 65°	8.5 / 60°	10.3 / 50°	10.8 / 40°	15.3 / 30°	19.1 / 20°	16.7 / 10°	18.9	17.6 / 10°	-5.6 / 30°	15.2 / 30°	11.3 / 50°	6.8 / 70°
	7.7 / 148°	3.2 / 140.5	W.S. -5.5 / 130°	-5.8 / 120°	-5.8 / 110°	-6.0 / 100°	-5.9 / 90°									
817	-4.4 / 90°	-4.2 / 80°	3.2 / 70°	W.S. 6.5 / 67°	7.3 / 60°	8.4 / 50°	14.4 / 40°	16.3 / 30°	19.1 / 20°	19.5 / 10°	18.8	18.5 / 10°	-15.4 / 30°	13.1 / 30°	8.6 / 50°	6.5 / 70°
	7.2 / 145°	3.2 / 141.3	W.S. -0.6 / 140°	-4.7 / 130°	-5.0 / 120°	-5.0 / 110°	-5.0 / 100°									
818	-5.4 / 90°	-7.2 / 80°	3.2 / 71.0	W.S. 6.0 / 67°	6.4 / 60°	9.7 / 50°	11.7 / 40°	14.4 / 30°	17.1 / 20°	16.1 / 10°	17.2	16.1 / 10°	14.1 / 30°	10.2 / 30°	8.6 / 50°	7.0 / 70°
	6.3 / 140°	3.2 / 132°	W.S. -4.6 / 130°	-5.8 / 120°	-5.7 / 110°	-5.6 / 100°										
819	-5.1 / 100°	-4.5 / 90°	-5.5 / 80°	3.2 / 71.0	W.S. 7.5 / 67.5	8.8 / 60°	11.3 / 50°	15.4 / 40°	18.8 / 31°	17.6 / 20°	18.8	18.8 / 10°	16.1 / 30°	13.8 / 30°	11.7 / 40°	8.7 / 50°	6.8 / 70°
	6.8 / 142°	3.2 / 132°	W.S. -0.7 / 130°	-6.0 / 120°	-5.8 / 110°	-5.0 / 110°										

1364

January 1910

810					L4								C				TS4		
D890	-6.0 / 90°	-5.0 / 80°	-4.0 / 70°	3.0 / 70° WX	8.1 / 60°	8.6 / 50°	9.6 / 50°	14.0 / 40°	18.6 / 30°	18.7 / 30°	18.9 / 10°	16.4	14.4 / 10°	13.8 / 20°	12.1 / 30°	10.7 / 40°	8.7 / 50°	6.1 / 90°
	6.5 / 150°	8.0 / 140°	WX -4.7 / 140°	-5.7 / 130°	-6.5 / 120°	-6.1 / 110°	-6.4 / 100°											
801	-5.4 / 90°	-6.0 / 80°	+0.5 / 70°	3.0 / 65 WX	5.5 / 60°	6.1 / 50°	8.0 / 50°	18.4 / 40°	18.0 / 30°	15.5 / 30°	16.7 / 10°	17.0	15.1 / 10°	11.4 / 30°	9.2 / 30°	7.9 / 40°	10.1 / 50°	5.8 / 80°
	5.1 / 140°	8.0 / 140°	WX -8.8 / 140°	-7.5 / 130°	-4.6 / 130°	-4.0 / 120°	-6.0 / 100°											
802	-6.4 / 90°	-4.8 / 80°	3.4 / 70	5.1 / 70 WX	6.4 / 60°	10.0 / 50°	14.5 / 40°	16.0 / 30°		16.1 / 30°	16.5 / 10°	16.6	15.9 / 10°	13.3 / 30°	12.1 / 30°	10.8 / 40°	8.5 / 50°	4.8 / 70°
	4.4 / 150°	8.2 / 150°	WX -2.0 / 160°	-6.1 / 140°	-6.7 / 130°	-6.9 / 120°	-7.0 / 110°	-7.8 / 100°										
803		-6.4 / 120°	-7.0 / 110°	-7.0 / 100°	-6.7 / 90°	-4.0 / 80°	-0.5 / 70°			3.2 / 65	WX 4.4 / 60°	16.6	fill to roof to cross section					
					2.0 / 150°	3.0 / 140°	WX -3.7 / 130°	-6.3 / 130°										

P.E.D.

1365

February 1910.

II 823 — 34 WS. / 69.5 — 4.0 / 67.0 — 7.5 / 58.0 — 10.7 / 46.0 — 14.5 / 84.0 — (-40.0) / 8.0 — 12.4 / 8.0 — 17.3 / 4.0 — 17.9 — 15.0 / 10.0 — (-18.0) / 36.0 — 16.1 / 23.0 — 8.2 / 41.0 — 4.9 / 50.0 — 4.1 / 60.0

38 / 68.0

Borrow Pit same as for January 1910

824 — -1.4 / 79.0 — 3.4 / 96.0 — 4.5 WS. — 3.6 / 76.0 — 4.4 / 62.0 — 12.8 / 57.0 — 12.6 / 53.0 — 11.8 / 44.0 — (-5.8) / 34.6 — 16.4 / 38.0 — 16.9 / 45.0 — 15.8 — 14.0 / 5.0 — 11.2 / 20.0 — (-18.7) / 37.4 — 9.7 / 31.0 — 8.0 / 38.0 — 4.1 / 50.0 — 3.6 / 63.0

-8.7 / 120.0 — -8.4 / 110.0 — -8.0 / 100.0 — -7.0 / 90.0 — -6.6 / 80.0 — -5.8 / 90.0

3.7 / 160.0 — -6.8 / 160.0 — -7.5 / 150.0 — -7.8 / 140.0 — -7.8 / 140.0 — -9.6 / 130.0

825 — 8.4 WS. / 65.0 — 4.0 / 54.0 — 6.1 / 47.0 — 8.2 / 46.0 — 13.1 / 37.0 — 15.7 / 34.0 — (-8.2) / 34.2 — 16.2 / 18.0 — 15.5 / 4.0 — 14.9 — 12.6 / 7.0 — 10.7 / 16.0 — 8.5 / 21.0 — 11.0 / 34.0 — (-10.7) / 35.4 — 3.9 / 39.0 — 4.5 WS / 55.0

-8.2 / 130.0 — -9.1 / 130.0 — -9.8 / 120.0 — -9.6 / 100.0 — -8.7 / 90.0 — -5.0 / 85.0 — -0.7 / 77.0

3.2 / 157.0 — +0.8 / 158.0 — -0.6 / 148.0 — -0.3 / 141.0

826 — -2.0 / 82.0 — -5.0 / 80.0 — 2.2 / 78.0 — 4.5 / 85.0 — 3.4 WS. / 86.0 — 5.7 / 81.0 — 11.1 / 83.0 — (-2.2) / 33.7 — 10.5 / 61.0 — 14.4 / 65.0 — 15.0 — 13.5 / 41.0 — 10.7 / 41.0 — 8.2 / 45.0 — 6.0 / 39.0 — 2.5 WS. / 42.4 — 2.2 / 38.0

-1.6 / 150.0 — -5.0 / 145.0 — -7.2 / 140.0 — -8.8 / 130.0 — -7.8 / 120.0 — -9.3 / 112.0 — -9.5 / 100.0 — -8.1 / 92.0

2.3 / 155.0

1366

February 1910

			27														
II 807	-2.4 / 80°	+2.5 / 70°	2.4 WS / 54.5	5.2 / 58°	10.1 / 45°	(-13.7 / 86.) 10.4 / 86°	12.4 / 97°	10.4 / 76°	12°	11.6 / 7.6	7.0 / 30°	6.4 / 30°	3.5 WS / 48.5	2.2 / 57°			
	-8.5 / 140°	-9.7 / 100°	-10.5 / 120°	-10.5 / 110°	-10.2 / 100°	-9.4 / 90°											
						9.3 / 15.90	-9.7 / 100°	-8.0 / 140°									
								(-18° / 37.°)									
808	1.7 / 75°	1.4 / 70.°	2.0 / 65°	3.4 WS / 54.5	5.6 / 79°	8.1 / 78°	11.7 / 23°	13.3 / 8.°	13.6	10.5 / 4°	9.4 / 70	8.4 / 84°	5.6 / 27°	3.5 WS / 36°	1.8 / 45.°		
	-11.0 / 130°	-11.2 / 110°	-10.6 / 100°	-9.8 / 90.°	-6.9 / 85°	-1.4 / 80°											
			1.8 / 149.°	-1.5 / 146°	-6.8 / 140°	-11.0 / 130°											
						(-15.3 / 110.)											
809	-1.0 / 81.°	+1.9 / 80.°	+1.8 / 70.°	3.4 WS / 55.5	5.4 / 42.°	10.1 / 95°	11.3 / 29°	10.9 / 16°	10.4	10.7 / 3°	10.3 / 11.°	7.8 / 20.°	6.6 / 30.°	5.5 / 38°	3.5 WS / 48.5	1.9 / 52°	
	-10.8 / 130.°	-10.0 / 100.°	-10.7 / 110.°	-10.1 / 100.°	-8.0 / 90.°	-5.5 / 85.°											
			1.8 / 160°	-0.9 / 155°	-5.9 / 150°	-9.5 / 140°											
						(-16.9 / 49.°)											
810	-7.2 / 85°	-1.4 / 80°	+1.5 / 75°	4.4 / 70.°	3.4 WS / 54.°	6.7 / 48.°	8.6 / 65°	11.2 / 28°	12.6 / 15.°	12.9	12.4 / 5.°	9.8 / 14°	8.1 / 34°	6.5 / 55°	3.5 WS / 70°	1.1 / 59°	
	-5.0 / 145°	-8.5 / 140°	-11.0 / 130°	-11.8 / 120°	-11.5 / 110.°	-11.8 / 100°	-10.5 / 90°										
						1.1 / 155.°	-1.5 / 150°										

1367

March 1910

Lt

II 831	-0.0 / 90°	-6.2 / 85°	+1.1 / 80°	+1.9 / 70°	+1.4 / 60°	3.4 / 79.5 WS		4.9 / 30°	5.8 / 15°		a / 5.5		3.5 / 270° WS	Wt 1.1 / 40°					
	-0.2 / 155°	-2.8 / 150°	-10.2 / 140°	-11.7 / 130°	-10.4 / 120°	-9.1 / 110°	-9.3 / 100°												
							1.1 / 169°	-0.1 / 160°											
832	+1.5 / 80°	+1.7 / 70°	5.4 / 57.5 WS	9.0 / 47°	(-15.6 / 202.) 10.2 / 35°	6.9 / 26°		10.8 / 18°	12.8	13.1 / 6°	8.8 / 15°	7.8 / 37°	2.5 / 46°	WS 0.2 / 80°					
	-10.1 / 130°	-10.7 / 120°	-10.8 / 110°	-11.9 / 100°	-9.0 / 90°	-5.0 / 80°													
				0.5 / 159°	-0.2 / 150°	-5.8 / 140°	-9.5 / 130°												
833	-1.5 / 58°	-0.6 / 68°	+0.1 / 70°	2.4 / 57.5 WS	(-11.6 / 45.4) 6.2 / 45°	8.8 / 33°		10.6 / 24°	11.8 / 15°	12.9	12.4 / 9°	10.2 / 4°	7.8 / 34.5	3.5 / 41° WS	1.2 / 37°				
	-10.6 / 130°	-10.9 / 120°	-11.9 / 110°	-11.9 / 100°	-9.7 / 90°	-7.8 / 80°													
				1.2 / 170°	-5.6 / 160°	-10.1 / 150°	-12.1 / 140°	-12.2 / 144.											
834	+1.2 / 80°	+1.8 / 70°	3.4 / 65.5 WS	6.4 / 45°	8.4 / 35°	10.3 / 20°		11.5 / 20.5°	10.7 / 12°	13.2	14.4 / 7°	8.4 / 0°	6.6 / 28°	3.5 / 39.5 WS	1.4 / 50°				
	-11.4 / 170°	-11.8 / 160°	-10.1 / 150°	-9.2 / 140°	-10.4 / 130°	-9.6 / 120°	-8.4 / 110°												
				1.5 / 173°	-1.0 / 160°	-9.2 / 150°	-9.6 / 140°												

Plotted as Feb.

1368

March 1910

D 885	1.8 / 70.0	2.2 / 60.0	3.4 / 49.2	5.0 / 45.0	5.1 / 39.0	7.6 / 34.0	8.7 / 27.0	10.5 / 18.0	11.8	11.8 / 6.0	9.5 / 1.0	8.6 / 9.0	4.0 / 32.0	3.5 / 46.0	-0.9 / 70.0	
	-2.8 / 160.0	-2.0 / 110.0	-2.0 / 100.0	-7.0 / 90.0	-8.0 / 85.0	-8.2 / 80.0	-8.2 / 70.0									
				+1.0 / 160.0	-6.8 / 165.0	-9.1 / 150.0	-11.0 / 140.0	-8.7 / 130.0								
886	-1.2 / 80.0	0.6 / 70.0	1.6 / 60.0	3.4 / 50.5	4.8 / 47.0	6.8 / 47.0		9.6 / 28.0	10.1 / 11.0	11.0	6.0 / 10.0	7.0 / 1.0	3.5 / 30.0	-0.8 / 41.0		
	-2.0 / 110.0	-10.6 / 130.0	-11.3 / 130.0	-11.5 / 110.0	-9.8 / 100.0	-6.5 / 90.0	-3.4 / 88.0									
	0.5 / 123.0	-6.0 / 125.0	-6.6 / 170.0	-7.0 / 170.0	-9.0 / 160.0	-8.0 / 150.0										
887	-0.6 / 70.0	-3.0 / 60.0	3.4 / 50.5	4.8 / 49.0	7.2 / 40.0	8.4 / 37.0		9.5 / 1.0	9.0 / 5.0	7.6	5.0 / 5.0	5.0 / 12.0	3.5 / 15.0	-1.4 / 37.0		
	-9.4 / 100.0	-8.1 / 110.0	-9.2 / 100.0	-5.7 / 90.0	-4.1 / 84.0	-0.6 / 81.0										
	+0.4 / 182.5	-4.1 / 180.0	-3.8 / 171.0	-6.8 / 171.0	-8.9 / 160.0	-8.1 / 150.0	-8.0 / 142.0	-9.5 / 131.0								
888	7.0 / 105	7.4 / 95.0	1.6 / 70	3.4 / 65.0	3.9 / 61.0	4.7 / 53.0	8.4 / 40.0	8.2 / 34.0	9.2 / 30.0	7.6	2.1 / 8.0	5.1 / 17.0	4.9 / 31.0	3.5 / 30.0	-1.5 / 18.0	
	-8.8 / 100.0	-8.5 / 100.0	-10.3 / 110.0	-10.2 / 110.0	-9.0 / 90.0	-3.8 / 85.0										
	+1.0 / 181.0	-0.0 / 180.0	-3.8 / 170.0	-5.0 / 165.0	-8.5 / 150.0	-11.8 / 150.0	-11.8 / 145.0									

Dredger "San Francisco" has dumped material on the rest of the March estimate #889 to 892 + 1 and over all the April Estimate.
Fill to soft to Cross Section

RCD

1369

Dredger "Neptune" June 1910.

II 908	12.2 / 50°	13.0 / 40°	15° / 30°	19.2 / 20°	20.8 / 10°	22.4
	10.4 / 60°	9.1 / 70°				
909	10.8 / 50°	15.3 / 40°	20.6 / 30°	23.6 / 20°	22.9 / 10°	20.5
	9.7 / 60°					
910	12.8 / 40°	14.5 / 30°	18.5 / 25°	23.8 / 20°	23.9 / 10°	23.6
	9° / 70°	10.4 / 60°	11.7 / 50°			
911	17.8 / 35°	19.6 / 30°	22.7 / 23°	23.9 / 20°	23.2 / 10°	23.4
	7.8 / 60°	10.8 / 50°	14.7 / 40°			

June 8, 1910

22.0 / 10°	21.0 / 20°	16.6 / 30°	10.6 / 40°	6.6 / 50°	+5.4 / 60°	5.0 / 72°	2.0 W.S. / 77°	
-1.9 / 80°	-7.0 / 85°	-5° / 90°	-7.5 / 100°	-9.4 / 110°	-6.0 / 120°	-4.9 / 130°	-5.0 / 140°	-6.4 / 150°
-4.7 / 160°	-2.3 / 170°	-3.1 / 180°	+0.8 / 190°	-0.0 / 200°	-2.7 / 210°	2.0 W.S. / 216°	4.9 / 221°	
20.8 / 10°	18.1 / 20°	13.2 / 30°	8.6 / 40°	6.7 / 50°	5.4 / 60°	5.0 / 67°	2.0 W.S. / 71°	
-1.4 / 75°	-4.9 / 80°	-5.7 / 90°	-6.7 / 100°	-7.1 / 110°	-6.0 / 120°	-7.8 / 130°	-7.5 / 140°	
-4.0 / 150°	-0.0 / 160°	+1.5 / 170°	-0.4 / 180°	-1.2 / 190°	+1.6 / 200°	2.0 W.S. / 202	5.1 / 207°	
23.9 / 10°	18° / 20°	12.5 / 30°	9.1 / 40°	6.1 / 50°	6.3 / 60°	5.5 / 74°	2.0 W.S. / 74.5	-1.7 / 80°
-5.3 / 85°	-6.9 / 90°	-9.1 / 100°	-8.0 / 110°	-8.2 / 120°	-8.4 / 130°	-7.0 / 140°	-7.8 / 150°	
-6.0 / 160°	-5.9 / 170°	-1.8 / 180°	-0.2 / 190°	2.0 W.S. / 198°	5.1 / 207°			
21.3 / 10°	17.8 / 20°	12.5 / 30°	9.6 / 40°	6.3 / 50°	5.6 / 60°	5.2 / 62.5	2.0 W.S. / 65.5	
-4.2 / 75°	-5.3 / 80°	-7.1 / 90°	-8.7 / 100°	-6.6 / 110°	-8.3 / 120°	-8.4 / 130°		
-8.7 / 140°	-4.7 / 150°	-0.9 / 160°	-0.1 / 170°	-0.6 / 180°	+1.2 / 190°	2.0 / 195°	4.9 / 205°	

1370

Dredger "Neptune" June 1910.

	Lt.				C
II 912	15.5 / 30°	22.7 / 23°	25.2 / 20°	25.1 / 10°	24°
	6.5 / 70°	8.7 / 60°	10.8 / 50°	13.1 / 40°	
913	19.6 / 40°	16.2 / 30°	21.5 / 23°	24.0 / 20°	25.1 / 10°	24.3
	8.3 / 60°	9.8 / 50°			
914	17.2 / 40°	16.4 / 30°	21.7 / 23°	24.3 / 20°	25.0 / 10°	24.5
	6.2 / 70°	9.4 / 60°	11.7 / 50°		
915	18.6 / 40°	16.7 / 30°	20.0 / 23°	23.1 / 20°	24.8 / 10°	24.3
	7.5 / 60°	10.7 / 50°			

P

			7.4					
23.9 / 10°	19.0 / 20°	14.7 / 30°	9.6 / 40°	6.7 / 50°	5.6 / 60°	1.8 W.S. / 68.5	-3.7 / 75°
-5.9 / 80°	-6.5 / 90°	-7.7 / 100°	-8.0 / 110°	-6.1 / 120°	-6.4 / 130°	-5.0 / 140°	
-3.6 / 150°	-0.5 / 160°	-0.0 / 170°	+0.6 / 180°	1.8 W.S. / 185.5	5.0 / 200°		
23.8 / 10°	21.5 / 20°	15.9 / 30°	10.8 / 40°	6.3 / 50°	5.2 / 60°	5.1 / 69°	1.8 W.S. / 72°	-0.6 / 75°
-11.9 / 80°	-9.9 / 90°	-8.7 / 100°	-8.9 / 110°	-9.1 / 120°	-7.4 / 130°	-7.1 / 140°	-6.6 / 150°
-0.5 / 160°	+0.2 / 170°	-0.3 / 180°	-0.1 / 190°	1.8 W.S. / 202.0	4.8 / 211°		
23.6 / 10°	19.2 / 20°	15.5 / 30°	8.3 / 40°	5.9 / 50°	4.8 / 115	1.8 W.S. / 74.5	-4.6 / 80°	-6.6 / 85°
-7.0 / 90°	-8.2 / 100°	-8.6 / 110°	-8.4 / 120°	-7.6 / 130°	-5.1 / 140°	-9.8 / 150°	-5.8 / 160°	-1.3 / 170°
-0.6 / 180°	1.8 W.S. / 196.0	+4.7 / 204°						
23.1 / 10°	20.7 / 20°	15.2 / 30°	9.4 / 40°	6.1 / 50°	5.3 / 60°	1.8 W.S. / 69°	-4.1 / 80°	-6.3 / 90°
-7.7 / 100°	-7.7 / 110°	-8.8 / 120°	-6.7 / 130°	-5.8 / 140°	-4.7 / 150°	+0.6 / 160°	+1.0 / 170°	
+0.6 / 180°	1.8 W.S. / 193°	5.2 / 205°						

1371

Dredger "Neptune" May 1910

	L+					C	FH							
D 916	12.8 / 40.0	16.5 / 30.0	20.8 / 23.0	22.4 / 20.0	23.9 / 10.0	23.5	23.6 / 10.0	23.9 / 18.0	20.1 / 20.0	14.4 / 30.0	8.3 / 40.0	6.8 / 50.0	6.4 / 68.0	1.7 W.S. / 70.5
	6.2 / 80.0	8.4 / 70.0	8.7 / 60.0	11.3 / 50.0			-2.2 / 75.0	-4.6 / 80.0	-6.3 / 90.0	-7.0 / 100.0	-7.3 / 110.0	-7.4 / 120.0	-7.3 / 130.0	-6.5 / 140.0	-4.6 / 150.0
							+0.6 / 160.0	-2.0 / 170.0	-1.6 / 180.0	-0.0 / 190.0	1.7 W.S. / 199.5	-5.5 / 209.0		
917	6.7 / 30.0	8.9 / 23.0	9.4 / 20.0	14.9 / 10.0	19.4		24.5 / 10.0	23.8 / 20.0	18.1 / 30.0	11.6 / 40.0	8.2 / 50.0	6.4 / 68.0	1.7 W.S. / 71.5	-4.9 / 80.0
							-7.0 / 90.0	-7.4 / 100.0	-7.6 / 110.0	-8.1 / 120.0	-7.7 / 130.0	-6.0 / 140.0	-2.6 / 150.0	
							1.7 W.S. / 158.0	5.7 / 161.0						
918	Sacramento Drainage Canal													
919	14.4 / 40.0	17.2 / 30.0	22.1 / 23.0	23.5 / 20.0	23.6 / 10.0	23.6	22.6 / 10.0	18.2 / 20.0	11.4 / 30.0	8.6 / 40.0	7.8 / 50.0	8.8 / 64.0	1.5 W.S. / 73.0	-4.0 / 80.0
			8.0 / 60.0	12.1 / 50.0			-6.5 / 68.0	-6.9 / 70.0	-8.4 / 100.0	-9.3 / 110.0	-9.0 / 120.0	-7.8 / 130.0	-7.9 / 140.0	-4.0 / 150.0	-2.8 / 160.0
							-2.6 / 170.0	-1.4 / 180.0	-1.4 / 190.0	1.5 W.S. / 199.0	-5.0 / 203.0			

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Dredger "Neptune" May 1910

	Lt					C	Rt							
II 920	14.0/40°	17.0/30°	21.7/23.0	22.9/30°	22.9/10.°	22.5	21.3/10°	18.2/30°	18.2/30°	17.4/40.°	16.0/50°	15.6/60°	15.1 WS/72.6	-4.0/80°
	10.4/60.°						-5.3/95°	-7.3/90.°	-7.9/100.°	-8.3/110.°	-7.0/120	-7.1/130°	-5.2/140.°	-2.5/150.°
							-6.3/160.°	-2.5/170°	-0.8/180°	1.5 WS/195.°	4.9/190.°			
921	18.6/30.°	21.5/23.0	22.7/20.0	24.1/10.°	0.33		21.6/10°	19.5/30.°	18.3/30.°	17.5/40.°	16.3/50.°	15.5/71.°	15 WS/74.5	-4.0/80.° -6.6/85.°
	9.7/80.°	10.2/60.°	11.5/50.°	+14.1/40.°			-6.2/90.°	-8.3/100.°	-6.9/110.°	-8.4/120.°	-7.7/130.°	-7.1/140.°	-3.7/150.°	
							-2.9/160.°	-2.7/170.°	-2.°/180.°	-1.0/190.°	1.5 WS/199.5	5.°/211.°		
922	15.°/70.°	17.1/30.°	21.8/23.0	23.2/20.°	24.0/10.°	23.2	22.8/10.°	19.2/30.°	18.7/30.°	17.2/40.°	16.8/50.°	15.4/63.°	15 WS/66.5	-0.2/70.°
	7.5/90.°	8.2/80.°	9.1/71.°	10.8/60.°	17.0/50.°		-3.2/95.°	-4.0/80.°	-6.7/90.°	-8.0/100.°	-7.4/110.°	-8.0/120.°	-6.6/130.°	-3.0/140.°
							-5.5/150.°	-6.8/160.°	-6.4/170.°	-5.1/180.°	-3.6/190.°	-2.2/200.°	1.5 WS/202.°	5.2/210.°
923	14.0/40.°	18.6/30.°	22.0/23.°	23.5/20.°	23.5/10.°	22.7	22.8/10.°	18.6/30.°	17.1/30.°	16.6/40.°	16.2/50.°	16.2/60.°	15.2/66.5	15 WS/66.5 -0.6/70.°
			8.1/70.°	10.5/60.°	13.0/50.°		-4.1/75.°	-5.0/80.°	-6.2/90.°	-7.6/100.°	-5.4/110.°	-6.1/120.°	-5.0/130.°	-5.1/140.°
							-4.6/150.°	-3.6/160.°	-4.2/170.°	-1.7/180.°	-0.4/190.°	1.5 WS/194.5	5.6/208.°	

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Dredger "Neptune" May 1910

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Dredger "Neptune" May 1910

D 928	18.9 / 30.0	22.7 / 23.0	22.4 / 20.0	23.2 / 10.0	24.0	23.2 / 10.0	17.7 / 20.0	11.4 / 30.0	8.5 / 40.0	7.9 / 50.0	5.8 / 63.0	1.9 / 64.0	W.S. -3.1 / 70.0											
	6.8 / 80.0	8.7 / 60.0	10.1 / 50.0	13.7 / 40.0		-5.2 / 80.0	-5.6 / 90.0	100 to 140 same as previous x sect					-3.1 / 150	-1.3 / 160.0	-0.1 / 170.0	+1.0 / 180.0								
						-0.6 / 190.0	1.9 / 200.0	W.S. 5.4 / 210.0																
929	18.4 / 40.0	16.8 / 30.0	22.4 / 23.0	23.5 / 20.0	23.7 / 10.0	23.5 / 10.0	16.4 / 20.0	11.4 / 30.0	7.7 / 40.0	7.4 / 50.0	7.0 / 60.0	5.5 / 62.0	1.9 / 73.0	W.S. -7.5 / 80.0										
	8.5 / 60.0	10.9 / 50.0				-6.0 / 90.0	100 to 140 same as previous x sect						-5.8 / 150.0	+0.1 / 160.0	+0.1 / 170.0	-1.0 / 180.0								
						-0.8 / 190.0	1.9 / 203.0	W.S. 5.4 / 208.0																
930	18.3 / 40.0	16.0 / 30.0	19.6 / 23.0	20.9 / 20.0	22.4 / 10.0	22.7	22.4 / 10.0	20.0 / 20.0	14.7 / 30.0	8.2 / 40.0	5.8 / 50.0	4.1 / 62.5	1.9 / 65.0	W.S. -2.5 / 75.0	-3.5 / 80.0									
	4.2 / 100.0	6.7 / 70.0	8.3 / 60.0	+9.2 / 50.0		-5.8 / 90.0	100 to 140 same as previous x sect						-4.8 / 150.0	-4.4 / 160.0	-4.6 / 170.0	-4.2 / 180.0								
						-1.5 / 190.0	-0.4 / 200.0	1.9 / 208.0	W.S. 3.3 / 212.0															
931	8.8 / 40.0	10.8 / 30.0	14.7 / 23.0	17.7 / 20.0	22.0 / 10.0	23.0	22.1 / 10.0	18.1 / 20.0	12.1 / 30.0	7.3 / 40.0	5.7 / 50.0	4.0 / 61.6	2.0 / 71.0	W.S. -4.9 / 80.0	-5.9 / 90.0									
	4.0 / 70.0	4.5 / 60.0	6.1 / 50.0			100 to 140 same as previous x sect.							-6.3 / 150.0	-3.4 / 160.0	-2.6 / 170.0	-4.9 / 180.0	-0.8 / 190.0	+1.0 / 200.0						
						2.0 / 203.0	W.S. 4.1 / 223.0																	

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Dredger "Neptune" May 1910

								C
D 932	6.2 / 54.0	7.4 / 70.0	8.3 / 30.0	14.9 / 20.0	18.4 / 15.0	23.3 / 10.0	23.6	
			4.8 / 60.0					
933	12.4 / 60.0	18.9 / 50.0	18.4 / 40.0	15.0 / 30.0	21.5 / 20.0	23.5 / 10.0	20.4	
			4.7 / 90.0	2.1 / 80.0	8.8 / 90.0			
934		14.9 / 40.0	18.7 / 30.0	20.8 / 20.0	21.8 / 30.0	23.3 / 10.0	20.7	
		4.0 / 100	4.8 / 90.0	6.4 / 80.0	7.0 / 70.0	8.4 / 60.0	11.4 / 50.0	
935		8.9 / 60.0	8.9 / 50.0	13.8 / 70.0	16.2 / 30.0	20.4 / 20.0	20.8 / 10.0	23.4

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22.9 / 10.0	19.7 / 20.0	13.4 / 30.0	8.7 / 40.0	7.6 / 50.0	6.7 / 60.0	+2.0 W.S. / 70.0	-0.6 / 75.0	
-5.0 / 80.0	-6.6 / 90.0	-7.3 / 100.0	-7.7 / 110.0	-7.6 / 120.0	-6.9 / 130.0	-7.6 / 140.0	-5.0 / 150.0	
-4.1 / 160.0	-2.3 / 170.0	-2.8 / 180.0	-1.7 / 190.0	-1.6 / 200.0	+2.0 W.S. / 213.0	5.4 / 215.0		
20.2 / 10.0	16.4 / 30.0	11.1 / 50.0	7.0 / 70.0	5.7 / 80.0	4.0 / 60.0	3.8 / 63.3 / 2.0 W.S. / 90.0	-5.7 / 80.0	
-6.6 / 90.0	100 to 190 same as previous x sect.						-5.5 / 150.0	-7.6 / 160.0	-5.6 / 170.0	-2.4 / 180.0
-0.5 / 190.0	2.0 W.S. / 197.0	3.8 / 200.0						
21.7 / 10.0	17.7 / 20.0	11.5 / 30.0	6.7 / 40.0	5.9 / 50.0	5.3 / 60.0	3.4 / 70.0 / 2.0 W.S. / 91.0	-3.2 / 25.0	-6.6 / 90.0
-2.3 / 100	100 to 140 same as previous x sect						-6.0 / 150.0	-4.7 / 160.0	-4.2 / 170.0	-4.9 / 180.0	-1.4 / 190
-1.4 / 200.0	2.0 / 206.0	W.S. 3.4 / 208.5						
21.8 / 10.0	19.2 / 20.0	13.2 / 30.0	7.9 / 40.0	5.7 / 50.0	5.1 / 60.0	4.2 / 70.0 / 3.0 W.S. / 91.0	-4.9 / 80.0	-7.9 / 90.0
100 to 140 same as previous x sect							-8.3 / 150.0	-6.0 / 160.0	-4.9 / 170.0	-6.1 / 180.0	-1.6 / 190.0
2.0 W.S. / 201.0	7.2 / 203.0							

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Dredger "Neptune" May 1910

D 936	8.5 / 50.0	13.1 / 40.0	15.9 / 30.0	20.2 / 20.0	21.5 / 10.0	22.9																	
					5.2 / 70.0	6.0 / 60.0																	
937	6.0 / 60.0	6.8 / 50.0	9.0 / 40.0	11.4 / 30.0	18.3 / 20.0	22.7 / 10.0	21.0																
938	3.4 / 60.0	8.5 / 50.0	12.6 / 40.0	14.8 / 30.0	19.1 / 20.0	22.1 / 10.0	21.6																
939	6.9 / 60.0	6.6 / 50.0	9.8 / 40.0	12.2 / 30.0	15.5 / 20.0	20.0 / 10.0	21.7																
	4.8 / 67.0																						

D 936	32.7 / 10.0	19.2 / 20.0	13.0 / 30.0																				
	9.2 / 90.0	100 to 140 same as previous x sect.																					
937	19.7 / 10.0	18.0 / 20.0	11.7 / 30.0	6.5 / 40.0	4.0 / 50.0	3.4 / 60.0																	
	100 to 140 same as previous x sect.																						
938	19.7 / 10.0	18.6 / 20.0	13.7 / 30.0	8.6 / 40.0	4.4 / 50.0	3.0 / 60.0																	
	100 to 140 same as previous x sect.																						
939	20.6 / 10.0	15.8 / 20.0	10.2 / 30.0	4.8 / 40.0	4.0 / 50.0	3.1 / 60.0																	
	100 to 140 same as previous x sect.																						

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Dredger "Neptune" May 1910.

D 940	9.4 / 40.0	18.9 / 30.0	16.5 / 30.0	(-8.0) / 140.0 / 21.0 / 14.0	19.7 / 10.0	21.7																		
				4.6 / 50.0																				
941	3.7 / 30.0	8.6 / 40.0	13.0 / 30.0	(-10.0) / 40.0 / 14.6 / 25.0	19.6 / 20.0	20.2 / 10.0	21.4																	
942	5.4 / 35.0	6.0 / 50.0	9.2 / 40.0	14.1 / 30.0	(-4.9) / 19.2 / 18.1 / 20.0	20.7 / 10.0	21.7																	
				2.9 / 70.0																				
943	3.2 / 47.0	7.6 / 40.0	13.3 / 30.0	(-2.8) / 19.6 / 19.4 / 20.0	20.3 / 10.0	21.5																		

19.6 / 10.0	18.8 / 60.0	9.2 / 30.0	3.8 / 40.0	(-17.0) / 44.0	5.1 / 50.0	3.0 / 74.0	2.0 WS / 75.0	-2.5 / 80.0																
-6.9 / 10.0	100 to 140 same as previous X sect				-6.0 / 150	-9.0 / 160.0	-9.0 / 170.0	-4.0 / 180.0	2.0 WS / 190.0															
3.0 / 190.5																								
20.7 / 6.0	20.9 / 10.0	14.5 / 20.0	9.9 / 30.0	(-1.4) / 48.7 / 5.6 / 40.0	3.2 / 50.0	3.0 / 76.0	2.0 WS / 76.4	-2.5 / 80.0																
7.8 / 10.0	100 to 140 same as previous X sect				-6.9 / 150.0	-8.0 / 160.0	-6.8 / 170.0	-3.9 / 180.0	-1.1 / 190.0															
9.0 WS / 192.0	3.0 / 201																							
20.1 / 10.0	20.0 / 13.0	17.6 / 20.0	12.1 / 30.0	2.1 / 40.0	(-1.4) / 49.0 / 3.6 / 50.0	3.9 / 75.0	2.0 WS / 76.5	-0.7 / 80.0	-4.4 / 85.0															
-7.9 / 10.0	100 to 140 same as previous X sect				-5.0 / 150.0	-6.9 / 160.0	-5.9 / 170.0	-2.0 / 180.0	-0.3 / 190.0															
2.0 W.S. / 190.0	2.9 / 197.0																							
21.2 / 10.0	19.1 / 20.0	16.9 / 25.0	11.5 / 30.0	(-1.7) / 48.2 / 9.6 / 40.0	5.0 / 50.0	4.9 / 70.0	3.1 / 80.0	2.0 WS / 80.5																
-8.8 / 10.0	-6.0 / 20.0	100 to 140 same as previous X sect				-6.0 / 150.0	-3.1 / 160.0	-0.1 / 170.0	-2.7 / 180.0															
-1.8 / 190.0	3.0 WS / 201.0	3.1 / 201.5																						

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Dredger "Neptune" May 1910

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Dredge "Neptune" May 1910

			-10.1 / 39.2														
			LT.														
D 948	10.0 / 40.0	13.7 / 30.0	16.3 / 20.0	21.4 / 10.0	23.9 / 6.0		21.9										
				7.4 / 50.0													
			-9.7 / 39.4														
949	9.5 / 30.0	10.1 / 40.0	13.1 / 30.0	15.7 / 20.0	20.6 / 10.0		22.4										
			-10.3 / 39.6														
950	8.6 / 40.0	13.6 / 30.0	16.8 / 20.0	20.2 / 10.0			22.3										
			-4.8 / 39.1														
951	9.0 / 40.0	15.1 / 30.0	18.1 / 20.0	21.9 / 10.0			22.9										

Dredge "Sierra" dragged between these two stations before barrow pit could be sounded – see 1300 series for estimates

P

Dredger "Neptune" May 1910

	Lt. -3.9 / 25.8					C.	Rt. -9.4 / 28.3									
D 952	9.1 / 40.0	13.0 / 30.0	16.6 / 20.0	20.1 / 10.0		22.8	21.7 / 10.0	18.5 / 20.0	18.6 / 30.0	10.1 / 40.0	6.9 / 50.0	5.3 / 60.0	— / 70.0	1.6 / 74.0	WS	-0.7 / 80.0
	-5.0 / 85.	-9.8 / 90.0	Note 150 same as previous X sect					-9.3 / 160.0	-5.1 / 170.0	-5.0 / 180.0	-1.0 / 190.0	1.6 / 192.5	WS			
	191.0															
953	6.6 / 40.0	11.0 / 30.0	14.2 / 25.0	19.8 / 20.0	21.9 / 10.0	22.8	21.6 / 10.0	14.6 / 20.0	10.3 / 30.0	-10.7 / 31.4 / 8.5 / 40.0	5.0 / 50.0	— / 73.0	1.6 / 74.0	WS	-3.7 / 80.0	-6.0 / 85.0
	-9.0 / 90.0	Note 150 same as for previous X sect.						-11.4 / 150.0	-10.0 / 160.0	-7.0 / 170.0	-4.0 / 180.0	-4.2 / 190.0				
	-0.9 / 200.0	16 / 204.0	WS / 207.5													
954	2.2 / 50.0	9.9 / 40.0	18.6 / 30.0	19.4 / 20.0	20.9 / 10.0	23.4	20.7 / 10.0	20.4 / 20.0	19.5 / 30.0	9.8 / 40.0	6.9 / 50.0	3.5 / 60.0	94.0	1.6 / 75.0	WS	-2.2 / 80.0
	-4.2 / 85.0	-5.9 / 90.0	Note 150 same as previous X sect					-10.0 / 150.0	-6.6 / 160.0	-8.0 / 170.0	-10.6 / 180.0					
	-8.9 / 190.0	-0.0 / 200.0	1.6 / 206.0	WS / 207.0												
955	7.2 / 50.0	10.2 / 40.0	16.2 / 30.0	22.1 / 20.0	22.5 / 10.0	23.8	20.6 / 10.0	17.8 / 20.0	18.1 / 30.0	9.8 / 40.0	5.1 / 50.0	Dredger "Sierra"				
	4.5 / 60.0															

dredged at borrow pit at this station before it was sounded

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Dredger "Neptune" May 1910

	Lt					C.										
II 956	7.7/40.0	10.1 / 30.2 / 12.7 / 30.0	16.2 / 20.0	20.4 / 10.0	22.8	21.9/10.0	(-3.8) / 12.6 / 18.7 / 30.0	13.0 / 30.0	8.7 / 40.0	5.5 / 50.0	2.4 / 76.5	2.0 WS / 77.0	-5.0 / 85.0	-6.9 / 90.0		
	100 to 140 same as for previous X sect						1.30 / 150.0	-10.0 / 160.0	-12.0 / 170.0	-10.9 / 180.0	-5.7 / 190.0	-2.2 / 196.0				
	2.0 WS / 204.0	2.4 / 204.5														
957	9.2 / 40.0	12.0 / 30.0	(-10.9) / 25.6 / 17.4 / 20.0	21.4 / 10.0	22.1	22.8 / 10.0	18.1 / 20.0	13.5 / 30.0	10.4 / 40.0	6.5 / 50.0	4.1 / 60.0	0.5 / 80.0	2.0 WS / 80.5			
	-1.6 / 85.0	-5.8 / 90.0	100 to 140 same as previous X sect.				-11.5 / 150.0	-12.7 / 160.0	-12.4 / 170.0							
	-12.9 / 180.0	-12.8 / 190.0	2.0 WS / 200	2.9 / 201.0												
958	7.1 / 40.0	11.6 / 30.0	(-9.4) / 25.7 / 16.9 / 20.0	21.7 / 10.0	22.8	21.9 / 10.0	17.5 / 20.0	(-5.9) / 30.6 / 12.1 / 30.0	8.4 / 40.0	4.5 / 50.0	0.0 / 79.0 WS	-4.8 / 85.0	-6.1 / 90.0			
	100 to 150 same as for previous X sect.						-10.9 / 160.0	-10.2 / 170.0	-9.9 / 180.0	-2.0 / 190.0	2.0 / 196.0					
959	8.6 / 30.0	10.0 / 20.0	14.7 / 30.0	17.6 / 40.0	(-5.2) / 20.4 / 20.2 / 10.0	22.8	22.5 / 10.0	18.2 / 20.0	(-10.7) / 30.3 / 13.6 / 30.0	9.4 / 40.0	4.2 / 50.0	2.0 WS / 77.0	-4.0 / 85.0	-6.5 / 90.0		
	100 to 140 same as previous X sect						-11.4 / 150.0	-12.0 / 160.0	-10.9 / 170.0	-8.5 / 180.0	-5.7 / 190.0	2.0 / 196.0				

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Original Cross Sections of Borrow pit.

Lt. Rt.

774	7.4 / 335.0	7.8 / 305.0	7.2 / 255.0	6.9 / 205.0	6.7 / 155.0
775	7.2 / 335.0	7.1 / 305.0	6.9 / 255.0	6.7 / 205.0	6.5 / 155.0
776	6.8 / 335.0	6.8 / 305.0	6.7 / 255.0	6.6 / 205.0	6.5 / 155.0
777	6.6 / 335.0	6.6 / 305.0	6.5 / 255.0	6.6 / 205.0	6.2 / 155.0
778	6.6 / 335.0	6.5 / 305.0	6.4 / 255.0	6.8 / 205.0	6.7 / 155.0
779	6.5 / 335.0	6.5 / 305.0	6.5 / 255.0	6.6 / 205.0	6.5 / 155.0
780	6.8 / 335.0	5.8 / 305.0	5.8 / 255.0	6.0 / 205.0	5.9 / 155.0
781	5.9 / 300.0	5.7 / 282.0	6.0 / 200.0	6.8 / 150.0	6.9 / 100.0	6.9 / 50.
782			6.0 / 150.0	6.8 / 100.0	6.8 / 50.0

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Continued from Original Cross Section Book No 8, page 24.

6.8 / 70.0

6.8 / 70.0

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Original Cross Sections of Borrow pit.

				4				0	ft
783			6.1 / 180.0	6.1 / 100.0	6.2 / 50.0				5.9 / 70.0
784			6.2 / 180.0	6.0 / 100.0	5.5 / 50.0				6.0 / 70.0
785			6.0 / 180.0	6.0 / 100.0	5.7 / 50.0				6.7 / 70.0
786			6.0 / 180.0	5.6 / 100.0	5.7 / 50.0				6.4 / 70.0
787			5.5 / 180.0	5.8 / 100.0	5.8 / 50.0				6.7 / 70.0
788			5.3 / 180.0	5.0 / 100.0	4.9 / 50.0				6.1 / 70.0
789			4.9 / 180.0	4.9 / 100.0	4.9 / 50.0				5.3 / 70.0
790			4.9 / 180.0	4.8 / 100.0	4.6 / 50.0				4.8 / 70.0
791			4.7 / 180.0	4.4 / 100.0	4.7 / 62.0				4.9 / 70.0

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Original Cross Sections of Borrow Pit

				27						C	84
792					4.6 / 180.0		4.5 / 100.0		4.6 / 50.0		4.9 / 70.0
793			10.3 / 180.0		9.9 / 162.0		4.2 / 100.0	7.2 / 70.0	4.8 / 36.0		5.8 / 70.0
794		2.3 / 180.0	2.8 / 122.0	3.3 / 100.0	5.6 / 71.0		7.3 / 53.0	9.8 / 50.0	10.3 / 17.0		5.9 / 70.0
795					4.3 / 180.0		4.3 / 150.0	3.2 / 100.0	3.0 / 50.0		6.2 / 70.0
796					3.7 / 180.0		4.0 / 100.0		4.8 / 50.0		6.5 / 70.0
797					4.3 / 180.0		4.2 / 100.0		4.7 / 50.0		7.1 / 70.0
798					4.3 / 180.0		4.8 / 100.0		5.3 / 50.0		6.8 / 70.0
799					4.4 / 180.0		5.2 / 100.0		5.7 / 50.0		8.7 / 70.0
800					4.6 / 180.0		5.8 / 100.0		7.0 / 50.0		9.5 / 70.0
801					5.0 / 180.0		6.5 / 100.0		8.1 / 50.0		10.7 / 70.0
802					6.0 / 180.0		7.8 / 100.0		9.0 / 50.0		11.8 / 70.0
803					7.0 / 180.0		8.1 / 100.0		9.4 / 50.0		11.5 / 70.0
804					7.8 / 180.0		8.6 / 100.0		9.7 / 50.0		11.7 / 70.0

Pages 63 To 64 Used In
Final Estimate No 57

1385

Original Cross Sections of Borrowpit.

	Lt.			℄	Rt
II 805		8.2 / 180.0	8.9 / 100.0	10.1 / 50.0	12.1 / 70.0
806		7.8 / 180.0	7.6 / 100.0	11.2 / 50.0	13.2 / 70.0
807		7.9 / 180.0	10.3 / 100.0	12.4 / 50.0	12.5 / 70.0
808		7.9 / 180.0	12.5 / 100.0	12.4 / 50.0	10.1 / 70.0
809		9.4 / 180.0	10.3 / 100.0	10.1 / 50.0	8.8 / 70.0
810		10.1 / 180.0	8.5 / 100.0	8.7 / 50.0	8.0 / 70
811		9.8 / 180.0	7.9 / 100.0	8.0 / 50.0	7.5 / 70.0
812		8.9 / 180.0	7.1 / 100.0	7.1 / 50.0	7.0 / 70.0
813		7.5 / 180.0	6.6 / 100.0	6.6 / 50.0	6.0 / 70.0
814		7.5 / 180.0	6.9 / 100.0	6.5 / 50.0	6.0 / 70.0
815		7.6 / 300.0	7.7 / 200.0	7.6 / 100.0	5.9 / 90.0
816		7.0 / 300.0	7.9 / 200.0	7.6 / 100.0	6.0 / 90.0
817		6.8 / 300.0	7.4 / 200.0	7.0 / 100.0	6.5 / 90.0
818		6.6 / 300.0	6.4 / 200.0	6.8 / 100.0	7.0 / 90.0

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Original Cross Section of Borrowpit.

1132

				4					R4
#R18				5.9/300.0	6.7/300.0	6.9/100.0			6.8/90.0
R20				5.0/300.0	5.5/300.0	5.5/100.0			6.1/90.0
R21				4.9/300.0	5.1/300.0	5.1/100.0			5.3/90.0
R22				4.3/300.0	4.8/300.0	4.6/100.0			4.8/90.0
R23				Level					
R24		Tules		Level					
R25		Tules		"					
R26		Tules		"					
R27				2.2/300.0		2.4/100.0			2.0/90.0
R28				1.7/300.0		1.8/100.0			1.7/90.0
R29				1.7/300.0		1.6/100.0			2.2/90.0
R30				1.7/300.0		0.9/100.0			1.6/90.0
R31			24 5/370.0	1.1/300.0		1.1/100.0			1.1/90.0
R32			1.8/370.0	4.0/300.0		4.3/100.0			4.3/90.0

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Original Cross Sections of Borrowpit.

II 833	2.8 / 370	1.9 / 300.0			1.2 / 100.0		1.0 / 90.0
834	2.0 / 370	1.7 / 300.0			1.4 / 100.0		1.4 / 90.0
835	2.1 / 370	1.1 / 300.0		1.0 / 100.0	-0.9 / 90.0		-0.9 / 90.0
836	2.0 / 370	+0.8 / 300.0	+0.4 / 125.0	0.0 / 150.0	-0.7 / 90.0		-0.8 / 90.0
837	1.5 / 370	+0.6 / 300.0	+0.3 / 125.0	0.0 / 150.0	-1.1 / 90.0		-1.4 / 90.0
838	2.0 / 370	+1.1 / 300.0	+1.0 / 200.0	+1.0 / 150.0	-1.4 / 90.0		-1.8 / 90.0
839	2.1 / 370	1.3 / 300	1.0 / 160	+0.6 / 150	-0.9 / 90		1.6 / 90
840	2.3 / 370	1.5 / 300	1.4 / 145	0.7 / 140	0.7 / 120	+0.3 / 90	1.5 / 90
841			2.3 / 370	1.0 / 300	0.9 / 100		0.9 / 90

Borrowpit Original Cross Sections continued in Original Cross Section Book No 8, page 25.

1388

Dredger "Neptune" May 1910

D 960			-10.3 / 38.2																			
	5.2 / 50.0	9.1 / 40.0	10.5 / 30.0	16.8 / 20.0	20.0 / 10.0	21.8																
	20.1 / 10.0	15.4 / 20.0	11.9 / 30.0																			
	-4.6 / 85.0	-6.2 / 90.0	100 to 190 same as for previous X sect																			
	-10.9 / 180.0	-2.0 / 190.0	2.3 / 195.0																			
961			-19.6 / 37.2																			
	5.7 / 50.0	9.2 / 40.0	13.2 / 30.0	14.6 / 20.0	21.3 / 10.0	21.6																
	20.2 / 10.0	18.0 / 20.0	12.9 / 30.0	9.3 / 40.0	4.5 / 50.0	2.5 / 60.0	2.0 / 70.0	-4.5 / 85.0														
	-8.6 / 90.0	100 to 140 Same as for previous X sect	2.8 / 150.0	-7.7 / 160.0	-9.9 / 170.0	-5.0 / 180.0	-1.7 / 190.0	2.0 / 200.0	2.5 / 210.0													
962			-16.9 / 42.6																			
	7.2 / 40.0	9.6 / 30.0	18.4 / 20.0	20.8 / 10.0	21.7																	
	21.0 / 10.0	19.4 / 20.0	-9.2 / 38.4 / 18.8 / 30.0	7.1 / 40.0	2.9 / 50.0	3.0 / 60.0	2.6 / 70.0	-4.3 / 85.0	-2.5 / 90.0													
	100 to 140 same as previous X sect	-8.7 / 150.0	-7.2 / 160.0	-8.3 / 170.0	-5.5 / 180.0	-2.6 / 190.0	0.0 / 195.0															
	3.0 / 197.0																					
963			-17.9 / 31.9																			
	10.7 / 20.0	15.2 / 30.0	14.3 / 20.0	21.5 / 10.0	21.6																	
	21.0 / 10.0	15.6 / 20.0	10.9 / 30.0	6.2 / 40.0	-16.2 / 40.7 / 4.0 / 50.0	-3.6 / 60.0	-3.6 / 77.0	-2.0 / 78.0														
	-3.9 / 85.0	-4.9 / 90.0	100 to 150 same as previous	-2.3 / 160.0	-1.2 / 170.0	-1.7 / 180.0	-1.4 / 190.0	2.0 / 197.0														
	3.6 / 198.0																					

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Dredger "Neptune" May 1910

			D				C
D964	9.0 / 40.0	-14.0 / 38.0	11.7 / 30.0	15.6 / 20.0	19.2 / 15.0	22.9 / 10.0	21.4

D

			Tot					
20.2 / 10.0	16.8 / 20.0	10.7 / 30.0	6.5 / 40.0	-16.9 / 10.8	4.9 / 50.0	4.6 / 60.0	2.6 / 80.0	
2.0 W.S / 80.0	-2.1 / 85.0	Same as for	-10.0 / 160.0	-9.4 / 170.0	-8.4 / 180.0	-3.9 / 190.0	-5.5 / 200.0	
1.0 W.S / 0.025	3.6 / 210.0							

1390

744		23.00	-1.0	
745		24.4	+0.4	
746		23.00	-1.0	

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June 30, 1910

1+65	6.462				Lt	C	Rt
1+50							
1+00	12.962						
0+50	17.962					-10.2	-10.2 / 10.0
0							
0+9	22.062						
EB 1+50+12	22.062						
0+00							
0+9	22.062						
0+50	17.962						
1+00	10.962						
1+40	8.962						
1+65	6.462						

Left

Canal Bed

1392

12000	26839		14279
	23984		
	2855		
3890	27.302		2082
3000	25582	5510	21.732
5760	27.522	3760	21.762
4940	27.812	4150	23.372
	19520		14252
			1470
			15.762
			19.76

Bess W. - 969 to 1012 coordinates

1393